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INSECTICIDE REPORT

for 1956

N.C.
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THE BULLETIN of the

North Carolina Department of Agriculture

L. Y. BALLENTINE, *Commissioner*

Number 148

June, 1957

North Carolina

INSECTICIDE REPORT

for

January 1 - December 31, 1956



THE BULLETIN

of the

North Carolina Department of Agriculture

Raleigh, N. C.

L. Y. BALLENTINE, *Commissioner*
JOHN L. REITZEL, *Assistant Commissioner*
E. W. CONSTABLE, *State Chemist*

Number 148

June, 1957

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Inspection and Analysis of Economic Poisons

Economic poisons or pesticides cover a large number of materials and mixtures intended for destroying, controlling or repelling pests such as insects, weeds and other noxious plants, predatory animals and birds, soil-infesting pests such as nematodes, algae, snails and bacteria. Other examples are disinfectants, antiseptics and fungicides for use other than on living man or other animals, defoliants, various repellents, fly paper and other adhesive products whose action goes beyond simple mechanics, moth proofers, wood preservatives other than common paints, mildew controls, and seed fumigants and disinfectants.

An adequate and reliable supply of these products is as indispensable as is fertilizer in the production of food and fiber crops. Weed killers and defoliants are important adjuncts. The preservation of many products in storage and the control of domestic and industrial pests which affect both the health and welfare of human beings and animals are likewise dependent on such materials.

While encouraging the development and distribution of reliable products to serve these needs, and with due regard for public health and welfare, it is the purpose of the economic poisons law (the North Carolina Insecticide, Fungicide and Rodenticide Act of 1947, G. S., Article 4A, Chapter 106) to protect the public from adulterated, misbranded, worthless and dangerous products, and legitimate manufacturers from unscrupulous competition. Among other requirements, the law authorizes inspections, analyses of official samples taken from products offered for sale within the state and publication of results. With other pertinent information, there is given in this issue of *The Bulletin* a list of registrants, a summary of registrations and detailed results of analyses of official samples taken throughout the state by inspectors of the department, for the calendar year 1956. Included also are the North Carolina Aerial Crop-Dusting Law, regulations and registrants under that law, for 1956.

Before any brand of economic poison can be legally offered for sale in the state, it is required that it be registered with the Department of Agriculture. Application forms, furnished by the department, must be submitted in triplicate with copy of all labeling and claims. Applications must be accompanied by an inspection fee of ten dollars per brand and grade, payable to the North Carolina Department of Agriculture. All registrations expire December 31 of each year and are subject to re-registration with annual payment of inspection fees. Requirements are given in fuller detail in the "Brief of North Carolina Insecticide Law" on pages 5 and 6. Copies of the law and related regulations are available on request.

A statewide inspection service is maintained for the collection of official samples of economic poisons from farms, other users, and dealers. Individual requests for inspections are followed up promptly.

Samples are sent to the department's laboratories for analysis and as soon as this work is completed, individual reports are forwarded to man-

ufacturers, dealers and users. As a further means of reporting, an issue of *The Bulletin* covering a year's work, as exemplified herewith, is published annually.

The economic poisons law gives control officials certain discretionary authority in dealing with borderline cases. The earnest cooperation of a great majority of manufacturers and dealers has been a valuable asset in the administration of the law.

Cooperative work by staff members of the North Carolina Experiment Station and Extension Service has been mutually beneficial and most helpful. Credit also is due members of the laboratory section for the highly satisfactory manner in which the analytical work has been carried out: H. A. Miller, Assistant State Chemist; Delwin P. Johnson, Henry W. Barnes, Jr., Mrs. Muriel Weathers, Chemists; Miss Pat Barefoot, Miss Mary Melvin, Secretaries; George A. Brown, Jr., J. W. Davis, Lindsey Ennis, H. C. McPhail, Inspectors; Vernon Williams, Laboratory Helper.

Brief of North Carolina Insecticide Law

Commissioner of Agriculture, Raleigh, North Carolina.

Administrative
Officer

1. The name and address of the guarantor.
2. The brand name or trademark.
3. The net weight or measure.
4. A guaranteed analysis statement showing:
 - a. The name and percentage of each active ingredient.
 - b. The total percentage of inert ingredients.
5. Instructions for use, adequate for the protection of the public.
6. A warning or caution statement adequate to prevent injury.
7. For economic poisons highly toxic to man:
 - a. The skull and crossbones.
 - b. The word "Poison" in red, on distinctly contrasting background.
 - c. An antidote for the poison.
8. When arsenic is present—the percentages of the total and of the water-soluble arsenic separately and as elemental (metallic) arsenic.

Information
Required to
Appear on
Package
Labels

Other General Requirements:

1. Strength and quality must not fall below that professed or claimed.
2. No false or misleading statement, design or other representation is permissible.
3. Imitations are not permitted.
4. Labeling may not refer to registration.
5. Labeling shall be legible and understandable.
6. Claims or directions for use may not deviate in substance, or composition vary, from representations made on registering.
7. Economic poisons must be sold in the registrant's or manufacturer's original package. If repackaged for sale, it loses its original identity and qualifies as a new product. As such it is subject to registration and all other provisions of the law. Responsibility rests on the repackaging agent.

General
Requirements

	8. Economic poisons in powdered form of white or light color require distinct further coloring for safety.
Registration	Each brand and grade of economic poisons must be registered prior to sale (application forms are furnished by the department), subject to renewal annually, January 1st. Duplication of registration by secondary sellers is not required.
	Application must be accompanied by full information (see package labeling above), including specimen of labeling, all claims, and, if called for, certain additional data when necessary in qualifying the product.
Inspection Tax	An annual inspection tax of \$10.00 for each brand and each grade is required.
Method of Paying	Inspection tax must accompany application for registration, payable to the North Carolina Department of Agriculture.
Refusal or Cancellation of Registration	Registration is subject to refusal or cancellation for cause and upon hearing.
Stop-Sale Orders	Goods not measuring up to requirements are subject to Stop-Sale Orders.
Short Weight	Short weight, in addition to above, is subject to penalty.

Exempt From Penalties of Law Are:

Exemptions	1. Carriers engaged in legal transporting.
	2. Public official while performing official duties.
	3. Manufacturers and shippers of products properly identified for experimental use only.
	4. Persons shown to be proceeding in good faith on guarantees and representations given by others. The original guarantor then is liable.

NOTE: Copies of the economic poisons law may be obtained upon request to the Inspection Division, North Carolina Department of Agriculture, Raleigh, North Carolina.

Pesticide-Fertilizer Mixtures

Regulations under the fertilizer law now permit certain insecticides to be mixed with fertilizers. These are: Technical chlordane, aldrin, dieldrin, heptachlor, toxaphene and DDT. There is continued interest in these mixtures for combatting soil-borne pests, and a number of brands have been registered for sale.

Experience with such mixtures is slowly developing. The practical and economic advantages of putting both pesticides and fertilizer into the soil in a single operation are obvious. There are, however, certain disadvantages and dangers which must be taken into account, such as restricted applicability, the possibility of misuse, incompatibility and short life of some pesticides when mixed with fertilizers, the danger of toxic levels of pesticides being built up in the soil, development of off-flavor and bad odors, particularly in root crops, and the danger of translocation of poisons from soils to plants, then to animals and to man.

It is obvious that the recommendations for use of pesticide-fertilizer mixtures in the soil pose many critical problems. These should not function to restrict sound progress. However, they do dictate a conservative policy, subject to expansion or modification from time to time as additional basic facts are available. The policy which has been followed and the line of thinking on which it is based are indicated in the commitments which follow.

Recommendation by the N. C. Agricultural Experiment Station, Raleigh, N. C., December 14, 1948:

"Because of the lack of sufficient information on these problems and in order to prevent possible damage or loss of money to either the farmer or the fertilizer producer, it is recommended that the Commissioner of Agriculture should not accept for registration and subsequent sales any mixture of insecticides and fertilizer. Experimental use of such mixtures under proper supervision and direction is to be encouraged so that information may be obtained to solve the problems involved in the use of such mixtures."

Resolution by the Association of Economic Poisons Control Officials, Annual Conference, Washington, D. C., October 6, 1951; endorsed by the Experiment Station Section, Association of Land Grant Colleges and Universities, Houston, Texas, Meeting, November 13, 1951:

"In view of the immediate and possible long lasting effects of the application or misapplication of pesticides, be it resolved, that the Economic Poisons Control Officials do not register, permit the sale or distribution of pesticide-fertilizer mixtures, for field crops or horticultural use unless such mixtures have been formally approved by the officials of the Agricultural Experiment Station or other officials vested with such responsibility by law in their State."

Letter to fertilizer dealers, by L. Y. Ballentine, Commissioner of Agriculture, May 16, 1950:

"To Fertilizer Manufacturers and Dealers selling fertilizer in North Carolina

"In order that the future of the peanut industry in North Carolina not be jeopardized by improper insect control practices, your attention is called to the following:

- "1. Experiments conducted by the North Carolina Agricultural Experiment Station have shown that a disagreeable taste and odor have resulted from the use of Benzene Hexachloride to control insects attacking peanuts.
 - "2. The residue of Benzene Hexachloride used on cotton for boll weevil control may be sufficient to produce unfavorable effects on peanuts grown in the rotation.
 - "3. Representatives of the North Carolina Agricultural Experiment Station, Extension Service, and State Department of Agriculture have recently conferred on this subject. The group considers Benzene Hexachloride, the technical grade or the purified form known as lindane, unsafe for insecticidal treatment for peanuts. This is in agreement with conclusions reached by a similar group from Virginia who met a few days ago. It is also in accord with a recent resolution passed by the Virginia-Carolina Peanut Association.
 - "4. On cotton grown in rotation with peanuts, recommended materials other than BHC should be used.
 - "5. As new information on this program is developed, the recommendations may be modified. We will keep you advised of any significant findings on this important subject.
- "We solicit the cooperation of the fertilizer industry on this important problem affecting our peanut growers."

REGULATIONS

(From Chapter VIII of Rules, Regulations, Definitions and Standards of the North Carolina Department of Agriculture)

§8-36.1. Insecticides In Fertilizers. The inclusion of technical chlordane, aldrin, dieldrin, heptachlor or toxaphene in fertilizers offered for sale in North Carolina is permitted under the following conditions:

(a) All manufacturers, formulating and offering for sale in North Carolina fertilizers containing the insecticides technical chlordane, aldrin, dieldrin, heptachlor or toxaphene, shall register such brands or mixtures with the North Carolina Department of Agriculture.

(b) Each bag of fertilizer must bear a Red tag, size $3\frac{1}{8}$ inches by $6\frac{1}{4}$ inches, with the following information printed thereon:

CAUTION

This fertilizer contains.....pounds of (name of insecticide) per 100 pounds of fertilizer.

NOTICE—IMPORTANT—NOTICE

Experiments and surveys have shown that this insecticide when applied with fertilizer at planting time may give some control of wireworms and/or southern corn rootworms and/or white fringed beetle. It does not effectively control the corn billbug. In experimental work insecticide-fertilizer mixtures have been applied immediately after mixing. The effect of the combination on the insecticide or on the fertilizer components, if left to stand, is not known.

Odor, off flavor, stunting of crops and other damage may result from the use of organic insecticides in this manner.

§8-36.2 DDT in Fertilizers.

(1) All manufacturers formulating and offering for sale in North Carolina fertilizers containing the insecticide DDT shall register such brands or mixtures with the North Carolina Department of Agriculture.

(2) Each bag of fertilizer containing DDT must bear a RED tag, size $3\frac{1}{8}$ x $6\frac{1}{4}$ inches, with the following information printed thereon:

CAUTION

This fertilizer contains.....pounds of technical DDT per 100 pounds of fertilizer.

Fertilizer mixtures containing not more than $\frac{1}{2}$ or 1 pound of technical DDT per 100 pounds of fertilizer are recommended for use only where the white fringed beetle is present and only on specific advice of a Federal or State entomologist. DDT or fertilizer containing DDT should not be used on the soil after a maximum of 15 pounds of DDT per acre has been applied.

The North Carolina Agricultural Experiment Station makes no general recommendation for the inclusion of insecticides in fertilizers. Indiscriminate use of certain insecticides may cause stunting of crops, off-flavors and odors, or other damage.

(Adopted June 20, 1951; Amended June 17, 1952 and June 22, 1953.)

(Authority: G. S. 106-50.15.)

Economic Poisons Registrants, 1956

- ACME FERTILIZER COMPANY**
Box 330
Wilmington, North Carolina
- ACME QUALITY PAINTS, INC.**
8250 St. Aubin Avenue
Detroit 11, Michigan
- ADCO, INCORPORATED**
902 W. Main Street
Sedalia, Missouri
- AERO-SANITATION COMPANY**
325 W. Pacific Avenue
St. Louis 19, Missouri
- AGRICULTURAL SPECIALTIES**
10219 Denton Drive
Dallas 20, Texas
- AIRKEM, INCORPORATED**
241 East 44th Street
New York, New York
- AIROSOL COMPANY, INC.**
525 N. 11th Street
Neodesha, Kansas
- ALCATRAZ COMPANY, INC., THE**
1900 Ellen Road
Box 5146
Richmond 20, Virginia
- ALFORD HOME PRODUCTS**
Box 595
Middlesex, North Carolina
- ALLEN-CROWL COMPANY**
1559 Allentown Road
P. O. Box 627
Lima, Ohio
- ALLIED CHEMICAL & DYE CORP.**
Barrett Division
40 Rector Street
New York 6, New York
- ALLIED CHEMICAL & DYE CORP.**
General Chemical Division
40 Rector Street
New York 6, New York
- ALLIED CHEMICAL & DYE CORP.**
Solvay Process Division
Box 271
Syracuse 1, New York
- ALLIED DRUG PRODUCTS CO.**
16th and Pierce Streets
Chattanooga 1, Tennessee
- AMERICAN AGRICULTURAL
CHEMICAL COMPANY, THE**
50 Church Street
New York 7, New York
- AMERICAN CHEMICAL COMPANY,
INC.**
726 First Street, S.E.
Roanoke, Virginia
- AMERICAN CHEMICAL PAINT CO.**
Ambler, Pennsylvania
- AMERICAN CYANAMID COMPANY**
30 Rockefeller Plaza
New York 20, New York
- AMERICAN OIL COMPANY**
Baltimore and South Streets
Baltimore 2, Maryland
- AMERICAN SCIENTIFIC LABORA-
TORIES, INC.**
Box 232
Madison 1, Wisconsin
- AMERICAN LACE PAPER COMPANY**
4425 N. Port Washington Road
Milwaukee 12, Wisconsin
- ANDERSON & SPILMAN**
Box 255
Danville, Kentucky
- ANTARA CHEMICALS**
(A Sales Division of General Aniline
& Film Corp.)
435 Hudson Street
New York 14, New York
- A-PENN OIL COMPANY**
P. O. Box 191
Butler, Pennsylvania
- APEX CHEMICAL COMPANY**
Box 146
Apex, North Carolina
- ASSOCIATED SEED GROWERS, INC.**
15 Main Street
Cambridge, New York
- ATHENS INSECTICIDE CO., INC.**
N. Jackson Street
Athens, Tennessee
- ATLA CHEMICAL COMPANY, INC.**
Box 1761
415 South Spring Street
Greensboro, North Carolina
- ATLANTIC & PACIFIC TEA COM-
PANY, THE GREAT**
2024 Thrift Road
Charlotte, North Carolina
- ATLAS AGRICULTURAL CHEMICALS,
INC.**
Box 169
Waynesboro, Georgia
- ATLAS CHEMICAL CORPORATION**
Box 169
Waynesboro, Georgia
- BARKER, MOORE & MEIN COMPANY**
541 N. Orianna Street
Philadelphia 23, Pennsylvania
- BAUER & BLACK**
Division of the Kendall Co.
309 W. Jackson Blvd.
Chicago 6, Illinois
- BERK, F. W. & COMPANY, INC.**
Park Place, East
Wood Ridge, New Jersey

- BERLOU MANUFACTURING CO.
421 Monroe Street
Marion, Ohio
- BEST EXTERMINATING
SERVICE, INC.
Box 631
Durham, North Carolina
- BLACK PANTHER COMPANY, INC.
Box 132
Sanford, North Carolina
- BLUE BALL CHEMICAL COMPANY
2506 Kuhl Avenue
Orlando, Florida
- BLITZ PRODUCTS, INC.
945 West George Street
Chicago 14, Illinois
- BLITZ-FOG COMPANY, THE
407 E. Michigan Street
Milwaukee 2, Wisconsin
- BLUE MAGIC COMPANY
Wilson, North Carolina
- BOHLENDER PLANT CHEMI-
CALS, INC.
Tipp City
Ohio
- BONIDE CHEMICAL COMPANY
382 North Genesee Street
Utica 4, New York
- BONNIE GREEN PRODUCTS CO.
Front and Bainbridge Streets
Philadelphia 47, Pennsylvania
- BOYLE-MIDWAY, INCORPORATED
22 East 40th Street
New York 16, New York
- BRIDGEPORT BRASS COMPANY
30 Grand Street
Bridgeport 2, Connecticut
- C-B DRUG COMPANY
2219 Freedom Drive
Charlotte 8, North Carolina
- CALIFORNIA SPRAY-CHEMICAL
CORP.
Lucas and Ortho Way
Richmond, California
- CAPE FEAR CHEMICALS, INC.
Box 543
Elizabethtown, North Carolina
- CANINE PRODUCTS, INC.
503 E. Franklin Street
Richmond, Virginia
- CARAJON CHEMICAL CO., INC.
Box 167
Fremont, Michigan
- CARBOLA CHEMICAL CO., INC.
Natural Bridge
New York
- CARBOLINEUM WOOD PRESERV-
ING COMPANY
528 W. Highland Avenue
Milwaukee 3, Wisconsin
- CAROLINA CHEMICALS, INC.
Box 128
West Columbia, South Carolina
- CAROLINA FEED STORE
279 East Main Street
Gastonia, North Carolina
- CARROLL CHEMICAL CO., THE
2301 Hollins Street
Baltimore 23, Maryland
- CARTER INSECTICIDE & CHEMI-
CAL COMPANY, INC.
Wallace
North Carolina
- CEDAR HILL FORMULAE CO., THE
234 Steele Street
Box 1129
New Britain, Connecticut
- CENTRAL CHEMICAL CORP.
49 North Jonathan Street
Hagerstown, Maryland
- CERASEAL CHEMICAL CORP.
P. O. Box 214
Chicago Heights, Illinois
- CHAMBERLAINS EXTERMINATORS
I Ryan Street
Salisbury, North Carolina
- CHAMBERS-GODFREY MANUFAC-
TURING COMPANY
302-04 Broadway
Martin, Tennessee
- CHAPMAN CHEMICAL COMPANY
Box 3158
Mallory Station
Memphis 9, Tennessee
- CHAPMAN, M. A. & SON
Box 691
Canton, North Carolina
- CHEMAGRO CORPORATION
101 Park Avenue
New York 17, New York
- CHEMICAL FORMULATORS, INC.
Box 26
Nitro, West Virginia
- CHEMLEY PRODUCTS COMPANY
5744 Western Avenue
Chicago 45, Illinois
- CHEMWAY CORPORATION
Fairfield Road
Mountain View, New Jersey
- CHESTER CHEMICAL CORP.
2732 6th Avenue, South
St. Petersburg, Florida
- CHIPMAN CHEMICAL CO., INC.
Bound Brook
New Jersey
- CLARKE & PROCTOR TURPEN-
TINE CO., INC.
317 Worth Street
Fayetteville, North Carolina
- CLEAN HOME PRODUCTS, INC.
507 North Cardinal Street
St. Louis 3, Missouri

- CLEARY CORPORATION, W. A.
P. O. Box 749
New Brunswick, New Jersey
- COASTAL CHEMICAL CORP.
Box 627
Greenville, North Carolina
- COLGATE-PALMOLIVE COMPANY
300 Park Avenue
New York 22, New York
- COLONIAL CHEMICAL COMPANY
6207 Georgia Avenue
Box 6325
West Palm Beach, Florida
- COLONIAL STORES, INC.
P. O. Box 1113
Columbia, South Carolina
- COMMON SENSE MANUFACTURING
COMPANY, INC.
1392 Niagara Street
Buffalo 13, New York
- CONNECTICUT CHEMICAL
RESEARCH CORPORATION
706 Bostwick Avenue
Bridgeport 5, Connecticut
- COOK CHEMICAL COMPANY
2500 Summit Street
Kansas City, Missouri
- COOPER, WILLIAM &
NEPHEWS, INC.
1909 North Clifton Avenue
Chicago 14, Illinois
- CORONA CHEMICAL DIVISION
Pittsburgh Plate Glass Company
New Albany Road
Moorestown, New Jersey
- COWLEY, S. L. & SONS MANU-
FACTURING COMPANY
708 West McAlester Street
Hugo, Oklahoma
- CRISP, S. A. CANINE COMPANY
Blackburg
South Carolina
- CRE-O-TOX CHEMICAL PRODUCTS
CO.
2670 Broad Avenue
Memphis, Tennessee
- D & A COMPANY, INC.
52 Remer Street
Bridgeport 6, Connecticut
- DALY-HERRING COMPANY
Adkin and University Streets
Kinston, North Carolina
- DARWORTH INCORPORATED
Cuprinol Division
24 S. Hopmeadow Street
Simsbury, Connecticut
- DAVIES-YOUNG SOAP COMPANY,
THE
705 Albany Street
Dayton, Ohio
- DAVISON CHEMICAL COMPANY
Division of W. R. Grace & Co.
P. O. Box 180
Wilmington, North Carolina
- DAVIS MANUFACTURING
COMPANY, INC.
115 W. Jackson Avenue
Knoxville, Tennessee
- d-CON COMPANY, INC., THE
1450 Broadway
New York 18, New York
- DE-BUG-ER, INCORPORATED
1414 E. Hemphill Road
Flint, Michigan
- DE PREE COMPANY, THE
130 Central Avenue
Holland, Michigan
- DeSOTO CHEMICAL COMPANY, INC.
North DeSoto Avenue
Arcadia, Florida
- DIAMOND BLACK LEAF COMPANY
332 N. Queen Street
Lancaster, Pennsylvania
- DILL COMPANY, THE
Washington Street & McKinley Avenue
Norristown, Pennsylvania
- DIXI CHEMICAL COMPANY
Box 1711
Chattanooga, Tennessee
- DOLGE COMPANY, C. B.
Ferry Lane, West
Westport, Connecticut
- DONALDSON COMPANY, INC.
666 Pelham Boulevard
St. Paul 14, Minnesota
- DOUGLAS CHEMICAL CO., THE
Box 5012
Richmond, Virginia
- DOUGLAS CHEMICAL COMPANY
620 East 16th Avenue
North Kansas City, Missouri
- DOW CHEMICAL COMPANY, THE
Midland
Michigan
- DRUGMASTER, INC.
4200 North Union Boulevard
St. Louis 15, Missouri
- DUNAWAY CORPORATION. JUDSON
Third and Grove
Dover, New Hampshire
- du PONT de NEMOURS & CO., E. I.
Wilmington 98
Delaware
- EAGLE PRODUCTS COMPANY
Box 162
Chattanooga, Tennessee
- ECKERD DRUGS, INC.
128 North Tryon Street
Charlotte, North Carolina
- ECONOMICS LABORATORY, INC.
914 Guardian Building
Saint Paul 1, Minnesota
- EDWARDS-COUNCILOR CO., INC.
121 Colley Avenue
Norfolk 10, Virginia
- ELECTROLUX CORPORATION
500 Fifth Avenue
New York 36, New York

EMERY INDUSTRIES, INC.
4200 Carew Tower
Cincinnati 2, Ohio

ESSO STANDARD OIL COMPANY
15 West 51st Street
New York 19, New York

ESTON CHEMICALS
Division of American Potash &
Chemical Corp.
3100 East 26th Street
Los Angeles 23, Calif.

FAESY & BESTHOFF, INC.
325 Spring Street
New York 13, New York

FAIRFIELD CHEMICAL DIVISION
Food Machinery & Chemical Corp.
Box 1616
Baltimore 3, Maryland

FARM SERVICE COMPANY
Highway No. 301 South
Box 70
Wilson, North Carolina

FARMERS COOPERATIVE
EXCHANGE, INC.
P. O. Box 1069
Statesville, North Carolina

FEDERAL CHEMICAL COMPANY,
INC.
2701 Winthrop Avenue
Indianapolis 5, Indiana

FLORIDA AGRICULTURAL
SUPPLY COMPANY
1611 Talleyrand Avenue
Jacksonville 1, Florida

FLORIDA CHEMICAL INDUS-
TRIES, INC.
Route 1, Box 130-C
Gainesville, Florida

FLY-CORD, INC.
P. O. Box 2006
Savannah, Georgia

FOLEY & COMPANY
945 West George Street
Chicago 14, Illinois

FRANKLIN RESEARCH COMPANY
5134 Lancaster Avenue
Philadelphia 31, Pennsylvania

CHEMICAL CORP. OF AMERICA
Freewax Division
P. O. Drawer 509
Tallahassee, Florida

FRENCH COMPANY, THE R. T.
1 Mustard Street
Rochester 9, New York

GALLOWHUR CHEMICAL CORP.
North Water Street
Ossining, New York

GARDEN HOSE SPRAY CO., INC.
7 Upland Road
Cambridge 40, Massachusetts

GARDEN RESEARCH LABORATORIES,
INC.
18 E. 41st Street
New York 17, New York

GASTON JOHNSTON CORP.
24-64 45th Street
Long Island City 3, New York

GEIGY AGRICULTURAL CHEMICALS
Division of Geigy Chemical Corp.
P. O. Box 430
Yonkers, New York

GENERAL INSECTICIDE CO., INC.
752 Herkimer Road
Utica, New York

GEORGIA-CAROLINA OIL CO.
1403 Sixth Street
Box 101
Macon, Georgia

GETEM MANUFACTURING CO., INC.
1261 West 42nd Street
Norfolk 8, Virginia

GIRARD COMPANY, INC.,
FELIX
2013 Fourth Avenue, South
Minneapolis 4, Minnesota

GLAND-O-LAC COMPANY, THE
Box 1178
Omaha 1, Nebraska

GLIDDEN COMPANY, THE
900 Union Commerce Bldg.
Cleveland 2, Ohio

GLOBE LABORATORIES
116 Commerce Street
Fort Worth 2, Texas

GLOVER COMPANY, INC., H. CLAY
60 Hempstead Avenue
West Hempstead
Long Island, New York

GLOVER MINERAL PRODUCTS, INC.
Kenbridge, Virginia

GOWEN COMPANY, INC., HOWERTON
Box 247
Roanoke Rapids, North Carolina

GRAHAM CHEMICAL COMPANY
1407 Battleground Avenue
Box 54
Greensboro, North Carolina

GRANT COMPANY
2735 North Ashland Avenue
Chicago 14, Illinois

GRANT LABORATORIES
6020 Adeline Street
Oakland 4, California

GREENHOUSE SUPPLY COMPANY
P. O. Box 135
Bolton, Georgia

GREEVER'S, INC.
Chilhowie
Virginia

GRO-WEL PRODUCTS
168 Hill Avenue
Sanford, North Carolina

GROWERS & PRODUCERS EXCHANGE
INC, THE
Box 1020
Roanoke, Virginia

GRISSMER COMPANY, EARL
Box 5992
Indianapolis, Indiana

GULF OIL CORPORATION
Box 1166
Pittsburgh 30, Pennsylvania

H & M CHEMICAL COMPANY, INC.
43 Green Street
Sumter, South Carolina

HAPPY JACK, INC.
Box 325
Snow Hill, North Carolina

HARMON PRODUCTS COMPANY
616 East Fourth Street
Gastonia, North Carolina

HARRIS & COMPANY, INC., J. M.
Box 411
Roanoke, Virginia

HARRIS MANUFACTURING CO., P. F.
101 West 8th Street
North Little Rock, Arkansas

HARRIS PRODUCTS COMPANY, INC.
Box 4
Miami Beach 39, Florida

HELLER LABORATORIES, INC.
Calumet Avenue and 40th Street
Chicago 15, Illinois

HENDRIX-BARNHILL COMPANY, INC.
2004 Dickinson Avenue
Greenville, N. C.

HESS & CLARK, INC., DR.
7th and Orange Street
Ashland, Ohio

HILL MANUFACTURING COMPANY
1500 Jonesboro Road, S. E.
Atlanta, Georgia

HILO COMPANY, THE
Box 246
Norwalk, Connecticut

HINTON & COMPANY, INC.
67 Murray Street
New York 7, New York

HOLCOMB MANUFACTURING
COMPANY, J. I.
1601 Barth Avenue
Indianapolis 7, Indiana

HOME & GARDEN PRODUCTS CO.
520 South Delaware Avenue
Philadelphia 47, Pennsylvania

HOME MANUFACTURING AND
SALES COMPANY
800 South Downing Street
Piqua, Ohio

HOPKINS AGRICULTURAL
CHEMICAL COMPANY
740 Williamson Street
Box 584
Madison, Wisconsin

HOUSE OF HUSTON, INC.
4135 Laguna
Coral Gables, Miami, Florida

HOUSTON COMPANY, SAM
Box 662
Talladega, Alabama

HUNTINGTON LABORATORIES, INC.
900-970 East Tipton Street
Huntington, Indiana

H. G. HUTSON & SONS
P. O. Box 2190
Atlanta, Georgia

HUTTIG SASH & DOOR COMPANY
1206 South Vandeventer Avenue
St. Louis 10, Missouri

HYDROPONIC CHEMICAL CO., INC.
Copley
Ohio

HYDROTEX INDUSTRIES
Box 2400
Dallas, Texas

HY-GRO CORPORATION
1101 Maryland Avenue
Baltimore 1, Maryland

IRWIN-WILLERT COMPANY
4044 Park Avenue
St. Louis 10, Missouri

IVO, INC.
Box 247
West Bend, Wisconsin

JARRETT COMPANY, INC., CECIL H.
P. O. Box 69
Newton, North Carolina

JONES PRODUCTS COMPANY, INC.
25 North Charter Street
Madison 5, Wisconsin

JOHNSON & SON, INC., S. C.
1525 Howe Street
Racine, Wisconsin

KAY CHEMICAL COMPANY
High Point, North Carolina

KEM-TOX CORPORATION, THE
814 W. 3rd Street
Little Rock, Arkansas

KING CHEMICAL COMPANY
2342 South Lauderdale Street
Memphis, Tennessee

KIRBY CHEMICAL COMPANY, INC.
Severn
North Carolina

KNAPP-MONARCH COMPANY
3501 Bent Avenue
St. Louis 16, Missouri

KOLKER CHEMICAL CORPORATION
600 Doremus Avenue
Newark 5, New Jersey

KOPPERS COMPANY, INC.
Tar Products Division
430 Park Avenue
New York 22, New York

LARVACIDE PRODUCTS, INC.
117 Liberty Street
New York 6, New York

LA SALLE CHEMICAL COMPANY
3601 South Racine Avenue
Chicago 9, Illinois

LATHAN CHEMICAL PRODUCTS
503 Neuse Street
Oriental, North Carolina

- LEBANON CHEMICAL CORP.
Box 532
Lebanon, Pennsylvania
- LEDERLE LABORATORIES
DIVISION
American Cyanamid Company
Middletown Road
Pearl River, New York
- LeGEAR MEDICINE CO., DR. L. D.
4161 Beck Avenue
St. Louis 16, Missouri
- LETHELIN PRODUCTS CO., INC.
15 MacQuesten Parkway, South
Mount Vernon, New York
- LINCK COMPANY, INC., O. E.
Route 46 and Valley Road
Clifton, New Jersey
- LINDAVAP, INCORPORATED
Box 638
635 South Main Street
Ann Arbor, Michigan
- LINEN WHITE CORP.
P. O. Box 1001
Hattiesburg, Mississippi
- LUCAS PRODUCTS CORPORATION
3839 Seiss Avenue
Toledo 12, Ohio
- McCLELLAN LABORATORIES
CORP., C. U.
321 West Redondo Beach Blvd.
Gardena, California
- McCORMICK & COMPANY, INC.
McCormick Building
Baltimore 2, Maryland
- McKESSON & ROBBINS, INC.
Box 548
Bridgeport, Connecticut
- McLAUGHLIN GORMLEY KING CO.
1715 Fifth Street, S. E.
Minneapolis 14, Minnesota
- MABEX COMPANY, THE
Umbria and Lemonte Streets
Philadelphia 27, Pennsylvania
- MAHAFFEY COMPANY
P. O. Box 3145
Greenville, South Carolina
- MAINTENANCE SUPPLY CO., INC.
Box 283
Huntersville, North Carolina
- MALLINCKRODT CHEMICAL WORKS
72 Gold Street
New York 8, New York
- MAXWELL INSECTICIDE CO., INC.
Box 5627
Raleigh, North Carolina
- MERCK & COMPANY, INC.
Rahway
New Jersey
- MICHIGAN CHEMICAL CORP.
500 North Bankson
St. Louis, Michigan
- MIDLAND LABORATORIES
210-220 Jones
Dubuque, Iowa
- MIKE, INC.
Box 92
Newland, North Carolina
- MILNER PRODUCTS COMPANY
4359 Northview Drive
Jackson, Mississippi
- MILLER COMPANY, B. E.
Box 127
Hancock, Maryland
- MILLER CHEMICAL AND FER-
TILIZER CORPORATION
2226 North Howard Street
Baltimore 18, Maryland
- MILLER PRODUCTS COMPANY
607 Del Monte Way
St. Louis 12, Missouri
- MONARCH SUPPLY, INC.
2438 West Lincoln Avenue
Milwaukee 15, Wisconsin
- MONSANTO CHEMICAL COMPANY
1700 South Second Street
St. Louis 4, Missouri
- MOORMAN MANUFACTURING CO.
Quincy
Illinois
- MOTOMCO, INCORPORATED
89 Terminal Avenue
Clark, New Jersey
- MUNCIE LABORATORIES, INC.
543 Johnson Building
Muncie, Indiana
- MURRAY COMPANY, EDGAR A.
Division of Fairfax Biological Laboratory
1 Electronic Road
Clinton Corners, New York
- MUTUAL PRODUCTS COMPANY
509 North Fourth Street
Minneapolis 1, Minnesota
- NATIONAL ALUMINATE CORPORA-
TION
6216 W. 66th Place
Chicago 38, Illinois
- NIAGARA CHEMICAL DIVISION
Food Machinery & Chemical Corp.
1200 Talleyrand Ave.
Jacksonville, Florida
- NIP-CO MANUFACTURING INC.
Box 356
New Rochelle, New York
- NOTT MANUFACTURING CO., INC.
Box 87
Mount Vernon, New York
- NOWLAND COMPANY,
THE GEORGE H.
2833 Spring Grove Avenue
Cincinnati 25, Ohio
- NUODEX PRODUCTS COMPANY, INC.
c/o Cornelius Zabriskie, Esq.
120 West 42nd Street
New York 36, New York
- NUSCO PRODUCTS, INC.
3118 South Ridgeway Avenue
Chicago 23, Illinois
- NYAL COMPANY, INCORPORATED
511 East 72nd Street
New York 21, New York

OLIN MATHIESON CHEMICAL CORP.
Mathieson Building
Baltimore 3, Maryland
Williamston, N. C.

ONE-SPOT COMPANY
Jessup
Maryland

OPITZ, INC., JOHN
50-14 39th Street
Long Island City 4, New York

ORB INDUSTRIES
P. O. Box 589
Media, Pennsylvania

PACIFIC COAST BORAX COMPANY
Division of Borax Consolidated, Ltd.
630 Shatto Place
Los Angeles 5, California

PANAGEN, INCORPORATED
Rt. 14
Woodstock, Illinois

PAPER PRODUCTS INCORPORATED
18554 S. Susana Road
Long Beach 5, California

PANTHER OIL & GREASE MANUFACTURING COMPANY
Box Seven Eleven
Fort Worth, Texas

PARKE, DAVIS & COMPANY
Joseph Campau at the River
Detroit 32, Michigan

PARRAMORE & GRIFFIN SEED CO., INC.
108 S. Toombs Street
Valdosta, Georgia

PEARSON & COMPANY
Box 431
Mobile, Alabama

PEE DEE CHEMICALS, INC.
Railroad Avenue
Kingstree, South Carolina

PEELE COMPANY, INC., W. R.
P. O. Box 7
Raleigh, North Carolina

PENICK & COMPANY, S. B.
50 Church Street
New York 8, New York

PENN-CHAMP OIL CORPORATION
P. O. Box 191
Butler, Pennsylvania

PENNSYLVANIA ENGINEERING CO.
1119-21 North Howard Street
Philadelphia 23, Pennsylvania

PENNSYLVANIA SALT MANUFACTURING COMPANY
Three Penn Center Plaza
Philadelphia 2, Pennsylvania

PEST-GUARD PRODUCTS, INC.
731 W. Davis Street
Dallas 8, Texas

PET CHEMICALS, INC.
3101 S. W. 38th Court
Miami, Florida

PETPAK PRODUCTS COMPANY
5151 North 32 Street
Milwaukee 9, Wisconsin

PFEIFFER COMPANY, THE
3965 Laclede Avenue
St. Louis 8, Missouri

PFIZER & COMPANY, INC., CHAS.
11 Bartlett Street
Brooklyn 6, New York

PHELPS DODGE REFINING CORP.
300 Park Avenue
New York 22, New York

PIEDMONT CHEMICAL CORPORATION
P. O. Box 978
Savannah, Georgia

PIONEER MANUFACTURING COMPANY, THE
3053 East 87th Street
Cleveland, Ohio

PITTSBURGH COKE & CHEMICAL COMPANY
Agricultural Chemicals Division
Box 1645
Pittsburgh 30, Pennsylvania

PLANTERS CHEMICAL CORP.
3111 Virginia Beach Blvd.
Norfolk, Virginia

POLK MILLER PRODUCTS CORP.
2007 North Hamilton Street
Richmond, Virginia

PRATT COMPANY, B. G.
204 21st Avenue
Paterson, New Jersey

PRATT FOOD COMPANY
25 Industrial Road
Hammond, Indiana

PRENTISS DRUG AND CHEMICAL COMPANY, INC.
101 W. 31st Street
New York 1, New York

PROTECTION PRODUCTS MANUFACTURING COMPANY
2305 Superior Avenue
Kalamazoo, Michigan

PROCTOR & GAMBLE COMPANY, THE
P. O. Box 599
Cincinnati 1, Ohio

PURE LABORATORIES, INC.
515 W. 6th Street, Pl.
Charlotte, North Carolina

PUREPAC CORPORATION
511 East 72nd Street
New York 21, New York

PUREX CORPORATION, LTD.
9300 Rayo Avenue
South Gate, California

- PYRROLE CHEMICAL CORP.**
817 Spring Lane
Portsmouth, Ohio
- QUALITY CHEMICAL CORP.**
Memorial Avenue
Greenville, North Carolina
- RALSTON PURINA COMPANY**
835 South Eighth Street
St. Louis, Missouri
- RAT BISCUIT COMPANY, THE
AND/OR K-R-O COMPANY**
19½ North Limestone Street
Springfield, Ohio
- RAT LUNCHES COMPANY**
1407 Ogden Street
Denver 18, Colorado
- RAWLEIGH COMPANY, THE W. T.**
223-225 East Main Street
Freeport, Illinois
- REARDON LABORATORIES, INCOR-
PORATED, W. G.**
330 North Main Street
Port Chester, New York
- REEFER-GALLER, INC.**
225 Fifth Avenue
New York 10, New York
- REILLY TAR & CHEMICAL CORP.**
1615 Merchant Bank Building
Indianapolis 4, Indiana
- REX RESEARCH CORPORATION**
600 Montrose Avenue
Toledo 7, Ohio
- REXALL DRUG COMPANY**
8480 Beverly Boulevard
Los Angeles 54, California
- RIGO MANUFACTURING CO., INC.**
Box 1188, 638 Benton Avenue
Nashville, Tennessee
- ROCON, INC.**
1650 11th Street
Denver 4, Colorado
- RODENT CONTROL FUND,
N. C. STATE COLLEGE**
P. O. Box 5577, State College Station
Raleigh, North Carolina
- ROHM & HAAS COMPANY**
222 West Washington Square
Philadelphia 5, Pennsylvania
- ROSE MANUFACTURING COMPANY**
445 Main Street
Beacon, New York
- ROYAL LACE PAPER WORKS, INC.**
99 Gold Street
Brooklyn 1, New York
- SALISBURY'S LABORATORIES, DR.**
500 Gilbert Street
Charles City, Iowa
- SANFAX COMPANY, THE**
P. O. Box 604
Atlanta, Georgia
- SANITATION PRODUCTS COMPANY**
1119 E. 10th Street
Charlotte, North Carolina
- SAUER, THE C. F. COMPANY**
2000 West Broad Street
Richmond, Virginia
- SCOTT INDUSTRIES**
311 Belevue
Jackson, Tennessee
- SCOTT & SONS COMPANY, O. M.**
Marysville, Ohio
- SEACOAST LABORATORIES, INC.**
156 Perry Street
New York 14, New York
- SEARS, ROEBUCK & COMPANY**
925 South Homan Avenue
Chicago 7, Illinois
- SENORET CHEMICAL COMPANY**
610 Gratiot Street
St. Louis 2, Missouri
- SEXTON & COMPANY, JOHN**
10 Chestnut Street
Philadelphia 5, Pennsylvania
- SHELL CHEMICAL CORPORATION**
460 Park Avenue
New York 22, New York
- SHELL OIL COMPANY**
50 West 50th Street
New York 20, New York
- SHUPTRINE COMPANY**
Box 644
Savannah, Georgia
- SINCLAIR REFINING COMPANY**
Box 1710
Atlanta, Georgia
- SINGLETARY, JR. & COMPANY, F. B.**
208 South Washington Street
Rocky Mount, North Carolina
- SINTOS COMPANY, INC., THE**
220 East 21st Street
New York 10, New York
- SKAT PRODUCTS, INC.**
7 Brown Street
Newark 5, New Jersey
- SMITH SEED & FEED COMPANY**
315 Lynn Street
Danville, Virginia
- SMITH SPECIALTIES COMPANY, T. W.**
P. O. Box 5146
1101 Dade Street
Charlotte, North Carolina
- SOCONY MOBIL OIL COMPANY, INC.**
26 Broadway
New York 4, New York
- SOUTH-EAST SALES COMPANY**
1308 E. Ponce De Leon Avenue
Decatur, Georgia
- SOUTHERN AGRICULTURAL
CHEMICALS, INC.**
Box 238
Kingstree, South Carolina

- SOUTHERN AGRICULTURAL IN-
SECTICIDES, INC.
Box 1130
Hendersonville, North Carolina
- SOUTHERN CHEMICAL COMPANY
Box 249
Hendersonville, N. C.
- SOUTHERN PRODUCTS COMPANY,
INC.
1105 Chestnut Street
Chattanooga, Tennessee
- SPINDLE CITY CHEMICAL CO.
P. O. Box 88
Canton, North Carolina
- SPIRITTINE CHEMICAL CO.
Box 233
Wilmington, N. C.
- SPRATT'S PATENT (AMERICA)
LIMITED
18 Congress Street
Newark 5, New Jersey
- STALFORT PRESSURE-PAK, INC.
2012 Hammonds Ferry Road
Baltimore 27, Maryland
- STANDARD AGRICULTURAL
CHEMICALS, INC.
1301 Jefferson Street
Hoboken, New Jersey
- STANDARD LABORATORIES, INC.
201 Tabor Road
Morris Plains, New Jersey
- STANDARD NAPHTHALENE
PRODUCTS COMPANY, INC.
115 Jacobus Avenue
South Kearny, New Jersey
- STATE CHEMICAL COMPANY
P. O. Box 174
Rocky Mount, North Carolina
- STAUFFER CHEMICAL COMPANY
P. O. Box 5285
Tampa 5, Florida
- STEARNS' ELECTRIC PASTE CO.
111 West Washington Street
Chicago 2, Illinois
- STEPHENSON CHEMICAL COMPANY
P. O. Box 188
College Park, Georgia
- STERLING CHEMICAL COMPANY
3909 Broadway
Kansas City, Missouri
- STERLING COMPANY, INC., THE
2801-05 Locust Street
St. Louis 3, Missouri
- STERWIN CHEMICALS, INC.
1450 Broadway
New York 18, New York
- STEVENS INDUSTRIES, INC.
Box 272
Dawson, Georgia
- STRICKLAND & COMPANY, J.
Box 2841
Memphis, Tennessee
- STULL'S CHEMICALS, INC.
3400 Nacogdoches Road
San Antonio, Texas
- SUN OIL COMPANY
1608 Walnut Street
Philadelphia 3, Pennsylvania
- SUWANNEE DRUG COMPANY
Newberry
Florida
- SWEENEY MANUFACTURING, INC.,
W. R.
340 S. Main Street
Salisbury, Missouri
- SWIFT & COMPANY
Plant Food Division
Box 210
Wilmington, N. C.
- TAYLOR CHEMICAL COMPANY
Aberdeen
North Carolina
- TAYLOR-REED CORPORATION
Glenbrook
Connecticut
- TENNESSEE COPPER COMPANY
Copperhill
Tennessee
- TENNESSEE CORPORATION
617-29 Grant Building
Atlanta 1, Georgia
- TENNESSEE PRODUCTS &
CHEMICAL CORP.
500 First Amer. Nat'l Bank Bldg.
Nashville, Tennessee
- TERRELL MOTHPROOF INSTITUTE
2 West Columbia Street
Springfield, Ohio
- TESCO CHEMICALS, INC.
1575 Northside Drive, N. W.
Atlanta, Georgia
- TEXIZE CHEMICALS, INC.
Box 1820
Greenville, South Carolina
- THOMPSON-HAYWARD CHEMICAL
COMPANY
2915 Southwest Boulevard
Kansas City 8, Missouri
- TOXITE LABORATORIES, INC.
Cumberland
Indiana
- T. & R. CHEMICAL COMPANY
P. O. Box 336
Fuquay Springs, North Carolina
- TRU-PINE COMPANY
7644 Vincennes Avenue - S
Chicago 20, Illinois
- TANCK, INCORPORATED, RAY H.
Middleton, Wisconsin

U. S. BORAX & CHEMICAL CORP.
630 Shatto Place
Los Angeles 5, California

UNION CARBIDE AND CARBON
CORPORATION
30 East 42nd Street
New York 17, New York

U. S. RUBBER COMPANY
1230 Avenue of the Americas
New York 20, New York

VACCINOL CHEMICAL COMPANY
P. O. Box 3205-2487 Penn. Ave.
Memphis 9, Tennessee

VAN BRODE MILLING CO., INC.
20 Cameron Street
Clinton, Massachusetts

VANDERBILT COMPANY, INC. R. T.
230 Park Avenue
New York 17, New York

VAPORETTE, INC.
823 Merchante Bank Building
Dallas 1, Texas

VESTAL LABORATORIES, INC.
4963 Manchester
St. Louis 10, Missouri

VICTRYLITE CANDLE COMPANY
24 Lake Drive
Oshkosh, Wisconsin

VINELAND POULTRY LABORATORY
P. O. Box 70
Vineland, New Jersey

VIRGINIA-CAROLINA CHEMICAL
CORPORATION
401 East Main Street
Richmond, Virginia

VIRGINIA SMELTING COMPANY
West Norfolk
Virginia

WALGREEN COMPANY
4300 Peterson Avenue
Chicago 30, Illinois

WALKER REMEDY COMPANY
224 Commercial
Waterloo, Iowa

WALLACE HARDWARE CO., INC.
9-13 North Cumberland Street
Morristown, Tennessee

WATKINS COMPANY, THE J. R.
150 Liberty Street
Winona, Minnesota

WAYNE WHOLESALE GROCERY CO.
North James Extension
117 By-Pass
Goldsboro, North Carolina

WEEVIL-CIDE COMPANY, THE
1323 Union Avenue
Kansas City 1, Missouri

WELLS & COMPANY, INC., S. C.
1-3 Church Street
LeRoy, New York

WEST DISINFECTING COMPANY
42-16 West Street
Long Island City 1, New York

WESTCHESTER VETERINARY
PRODUCTS
Division of Eastco, Inc.
180 Mamaroneck Avenue
White Plains, New York

WESTON PRODUCTS COMPANY
330 West Salisbury Street
Asheboro, North Carolina

WESTVACO CHEMICAL DIVISION
Food Machinery and Chemical Corp.
161 East 42nd Street
New York 17, New York

WHITMIRE RESEARCH
LABORATORIES, INC.
339 South Vandeventer Avenue
St. Louis 10, Missouri

WHITMOYER LABORATORIES, INC.
19 North Railroad Street
Myerstown, Pennsylvania

WILSON, INC., ANDREW
Baltusrol Way
Springfield, New Jersey

WINDSOR WAX COMPANY, INC.
611 Newark Street
Hoboken, New Jersey

WINN-DIXIE STORES, INC.
P. O. Box 840
Greenville, South Carolina

WINRU CHEMICAL & SALES CO.
923 State Line
Kansas City 1, Missouri

WOODLETS, INC.
2048 Niagara Street
Buffalo 7, New York

WOOLFOLK CHEMICAL WORKS, LTD.
East Main Street
Fort Valley, Georgia

WORRELL-CONSOLIDATED
LABORATORIES
1470 South Vandeventer Avenue
St. Louis 10, Missouri

WYATT-QUARLES SEED COMPANY
Raleigh, North Carolina

WYETH LABORATORIES
Division of Amer. Home Prod. Corp.
P. O. Box 8299
Philadelphia 1, Pennsylvania

YALE CHEMICAL COMPANY
P. O. Box 715
Nashville, Tennessee

N. C. Aerial Crop-Dusting Law and Regulations

The North Carolina Aerial Crop-Dusting Law, enacted by the General Assembly of 1953, has passed through its fourth year of enforcement. Its purposes are to protect public health and welfare, to bring improved order in the aerial dusting industry and to eliminate practices which were not in the best interest of the industry or those whom it serves. Marked progress has been made, but there is much yet to be accomplished. The North Carolina Aerial Applicators Association and other members of the industry sponsored the law and cooperate in its enforcement.

The law and the regulations promulgated thereunder, in summary, require the registration and licensing of those who engage in the custom application of pesticides by aircraft in this state. Qualification for license requires adequate knowledge of the proper use and application of pesticides, the dangers involved and precautions necessary in their application.

Annual renewal of all licenses is required. The validity of any license is further restricted to the period of time that coverage by liability bond or insurance for damage by aircraft is in force. The minimum liability coverage is \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident.

Licenses are of two types: Contractors—who contract for the airplane application of pesticides; and Applicators or aviators—those who do the application work. An individual, upon qualification, may procure both licenses. Applicator's licenses, among other things, are contingent on Civil Aeronautics Authority certificates and waiver for low flying.

Licenses may be suspended or revoked if licensees are no longer qualified, for fraudulent, faulty, careless or negligent operations, or for other failure to comply with the requirements of the law. They are automatically nullified upon cancellation or expiration of liability coverage.

The law and regulations are given in the succeeding pages.

N. C. AERIAL CROP-DUSTING LAW CHAPTER 106, N. C. GENERAL STATUTES.

Article 4B, Aircraft Application of Pesticides

§106-65.13. Definitions. For the purposes of this Article:

a. The term "pesticide" or "economic poison" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any insects, rodents, fungi, bacteria, weeds, or other forms of plant or animal life or viruses, except viruses on or in living man or other animals, which the commissioner shall declare to be a pest.

b. The term "insecticide" means any substance or mixture of sub-

stances intended for preventing, destroying, repelling, or mitigating any insects which may be present in any environment whatsoever.

c. The term "fungicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating fungi or plant disease.

d. The term "herbicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any weed.

e. The term "insect" means any of the numerous small invertebrate animals generally having the body more or less obviously segmented, for the most part belonging to the class Insecta, comprising six-legged, usually winged forms, as, for example but not limited to, beetles, bugs, bees, and flies, and to other allied classes of arthropods whose members are wingless and usually have more than six legs, as, for example, but not limited to, spiders, mites, ticks, centipedes, and wood lice.

f. The term "fungi" means all non-chlorophyll-bearing thallophytes (that is, all non-chlorophyll-bearing plants of a lower order than mosses and liverworts), as, for example, but not limited to, rusts, smuts, mildews, molds, yeasts, and bacteria, except those on or in living man or other animals.

g. The term "weed" means any plant or plant part which grows where not wanted.

h. The term "person" means any individual, firm, partnership, association, corporation, company, joint stock association, or body politic, or any organized group of persons whether incorporated or not; and includes any trustee, receiver, assignee, or other similar representative thereof.

i. The term "Commissioner" means the Commissioner of Agriculture.

j. The term "Board of Agriculture" means the North Carolina Board of Agriculture.

k. The term "custom application of pesticides" means any application of pesticides by aircraft.

l. The term "aircraft" means any contrivance now known or hereafter invented, used or designed for navigation of, or flight in, the air.

§106-65.14. Licenses.

a. It shall be unlawful for any person to engage in custom application of pesticides within this State at any time without a license issued by the Commissioner. Application for a license shall be made to the Commissioner and each application shall contain information regarding the applicant's qualifications and proposed operations and such other relevant matters as may be required pursuant to regulations promulgated by the Board of Agriculture.

b. The Commissioner may require the applicant to show, upon examination, that he possesses adequate knowledge concerning the proper use and application of pesticides, and the dangers involved and precautions to be taken in connection with their application. If the applicant is other than an individual, the applicant shall designate an officer, member, or

technician of the organization to take the examination, such designee to be subject to the approval of the Commissioner. If the extent of the applicant's operations warrant it, the Commissioner may require more than one officer, member or technician to take the examination.

c. If the Commissioner finds the applicant qualified, the Commissioner shall issue a license, which shall authorize the licensee to perform custom application of pesticides within this State. The license may restrict the applicant to the use of a certain type or types of materials if the Commissioner finds that the applicant is qualified to use only such type or types. If a license is not issued as applied for, the Commissioner shall inform the applicant in writing of the reasons therefor. All licenses issued under this Article shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

d. The Commissioner may suspend, pending inquiry, for not longer than ten days, after opportunity for a hearing, may revoke, or modify the provisions of any license issued under this section, if he finds as a fact that the licensee is no longer qualified or has engaged in fraudulent business practices in the custom application of pesticides, or has made any custom application in a faulty, careless, or negligent manner, or has violated any of the provisions of this Article or regulations made thereunder.

e. The Commissioner may require, under such rules and regulations as may be promulgated under this Article, from each applicant a liability bond against damage to person or property by aircraft and a reasonable performance bond with sufficient surety satisfactory to the Commissioner, which performance bond is to secure the performance of contractual obligations of the licensee with respect to custom application of pesticides. Any person injured by the breach of any such obligation or any person damaged by such aircraft shall be entitled to sue on the bond in his own name in any court of competent jurisdiction to recover the damages he may have sustained.

f. Any person aggrieved by any action of the Commissioner may within ten days after notice thereof request a review of said action by the Board of Agriculture. If no request for review is so made, the decision of the Commissioner shall be final. If a review is so requested, the Board of Agriculture shall promptly review the action of the Commissioner and either affirm or over-rule his action. If the Board of Agriculture affirms the Commissioner, it shall find the facts of the case and the aggrieved person may within thirty days after notice thereof appeal to the Superior Court of the county in which such person resides or to the Superior Court of Wake County and the matter may be heard in or out of chambers. Notice of the appeal shall be served on the Commissioner and within ten days thereafter the Commissioner shall certify and file in the court to which the appeal is taken a transcript of any record pertaining thereto, including a transcript of evidence received. The court shall have jurisdiction to affirm, set aside or modify the action of the Board of Agriculture, **provided**, that the findings of fact as made by said Board, if supported by evidence, shall be conclusive.

Any license which has been suspended or revoked by the Commissioner or Board of Agriculture shall remain suspended or revoked until the laws, and regulations of the Board of Agriculture, have been complied with or until the decision or action of said Commissioner or Board has been set aside by court action.

§106-65.15. Regulations, Materials and Methods of Application.—The Board of Agriculture, after public hearing, may adopt regulations prohibiting the use of materials or methods in custom application of pesticides to the extent necessary to protect health or property and may make such other regulations as it may deem necessary to carry out the provisions of this Article. **Provided, however,** such regulations shall not be inconsistent with regulations issued by this State or by the Federal Government respecting safety in air navigation or operation of aircraft and before issuing any regulations directly related to any matter within the jurisdiction of any other official of this State, the Commissioner shall consult with that official with reference thereto.

§106-65.16. Reports.—The Board of Agriculture may by regulation require any licensee to maintain records and furnish reports giving information with respect to particular applications of pesticides and such other relevant information as the Board of Agriculture may deem necessary.

§106-65.17. Information.—The Commissioner may, in cooperation with the North Carolina Agricultural Experiment Station, publish information regarding injury which may result from improper application or handling of pesticides and the methods and precautions designed to prevent such injury.

§106-65.18. Penalties.—Any person violating the provisions of this Article or the regulations issued hereunder shall be guilty of a misdemeanor and upon conviction shall be fined or imprisoned or both in the discretion of the court.

§106-65.19. Enforcement.—For the purpose of carrying out the provisions of this Act the Commissioner may enter upon any public or private premises at reasonable times in order to have access for the purpose of inspecting any aircraft or materials subject to this Article.

§106-65.20. Delegation of Duties.—The functions vested in the Commissioner by this Article may be delegated by him to such employees of the Department of Agriculture or other qualified persons as the Commissioner may from time to time designate for such purposes.

§106-65.21. Cooperation.—The Commissioner may cooperate with any other agency of this State or its sub-divisions or with any agency of any other State or of the Federal Government for the purpose of carrying out the provisions of this Article and of securing uniformity of regulations.

§106-65.22. Separability. —If any provision of this Act is declared unconstitutional, or the applicability thereof to any person or circumstance is held invalid, by a court of competent jurisdiction, the constitutionality of the remainder of the Act and the applicability thereof to other persons and circumstances shall not be affected thereby.

RULES, REGULATIONS, DEFINITIONS AND STANDARDS

CHAPTER XII

Application of Pesticides By Aircraft

ARTICLE 1. APPLICATION OF PESTICIDES BY AIRCRAFT

§12-1. Application for License.—Application for a license to engage in the custom application of pesticides by aircraft shall be made to the Commissioner of Agriculture upon forms prescribed for that purpose and furnished by the Department of Agriculture.

§12-2. Classes of Licenses.—There shall be two classes of licenses which shall authorize the holders thereof to engage in the custom application of pesticides to the extent authorized by the license and the rules and regulations of the State Board of Agriculture. The classes of licenses shall be as follows:

(a) Contractor's license. A contractor's license shall authorize the holder thereof to contract for the aerial application of pesticides.

(b) Airplane Applicator's License. An airplane applicator's license shall entitle the holder thereof to apply pesticides as contracted for by the holder of an operator's license.

§12-3. Examination for License.—Before any license is issued, the Commissioner may require the applicant to undergo such examination and to submit such other information as the Commissioner in his discretion may deem necessary for a proper determination of the applicant's qualifications.

§12-4. Modification, Revocation or Suspension of License.—All licenses are subject to modification as to terms and privileges and may be revoked or suspended by the Commissioner of Agriculture according to the provisions of G.S. 106-65.14. Licenses may be issued for periods of less than one year but all licenses shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

§12-5. Display of License.—All holders of contractor's or airplane applicator's licenses shall keep their licenses conspicuously posted at their place of business or about their person when engaged in the application of pesticides by aircraft and shall show their license upon request. Upon satisfactory proof of the loss or destruction of a license, a duplicate thereof may be issued to the qualified holder.

§12-6. Liability Bond.—No airplane applicator's license shall be issued unless the applicant submits to the Commissioner of Agriculture along with the application for license a liability insurance policy covering said applicant and the person or persons for whom the custom application of pesticides is to be made against liability for damage to all persons or property caused by said aircraft. Said liability insurance policy shall cover at least \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident; and shall be required to be in force for the duration of the applicant's license: Provided, however, it is not the intent of this regulation for any liability insurance policy to cover

damages resulting from the application of pesticides, but only for damages caused by aircraft.

§12-7. Report and Records.—Each contractor shall maintain daily reports and records on forms satisfactory to the Commissioner and all such reports and records shall be kept open and available for inspection by any authorized representative of the Department of Agriculture. Each Contractor shall also submit to the Commissioner of Agriculture on or before December 31 of each year an annual report on forms furnished by the Commissioner, covering in detail the contractor's activities for the period covered by the report.

§12-8. Responsibility of Contractors and Applicators.—All contractors and applicators shall be responsible for the proper use and maintenance of equipment and for the proper use and application of pesticides; and shall at all times use due care for the protection of surrounding property, crops, fish ponds, plants and livestock. Any contractor or applicator who violates or disregards the provisions of this regulation or who makes any custom application in faulty, careless, or negligent manner shall have his license suspended or revoked according to the provisions of G.S. 106-65.14.

(Adopted: June 22, 1953)

(Authority: G. S. 106-65.15)

Licenses under N. C. Aerial Crop-Dusting Law for 1956

This list gives the names of firms or individuals who registered with the North Carolina Department of Agriculture and were issued licenses as Contractors, Applicators, or both, for the year 1956. Each type of license is indicated in connection with the respective name of individual or firm as given in the list.

All licenses expired December 31, 1956, or earlier according to expiration of insurance coverage and are subject to renewal for operations in 1957.

AERO DUST & SPRAY SERVICE
P. O. Box 191
Richlands, North Carolina
Contractor

JACK ARMSTRONG
P. O. Box 1231
New Bern, North Carolina
Applicator

W. H. BAGGETT
Baggett Dusting Service
603 S. 22nd Street
Ft. Pierce, Florida
General Delivery
Fuquay Springs, North Carolina
Applicator and Contractor

JOSEPH NORMAN BAGWELL
Fletcher, North Carolina
Applicator

FREDERIC WILLIAM BAILES, JR.
P. O. Box 101
Washington, North Carolina
Beckley, West Virginia
Applicator

JOE K. BALL, JR.
Confederate Dusting & Spraying Service
Louisburg Airport
Louisburg, North Carolina
Applicator and Contractor

WILLIAM JACOB BAMFORD
Box 1127
New Bern, North Carolina
Orlando, Florida
Applicator

LLOYD H. BARNWELL
Barnwell Flying Service
Box 221
Douglas, Georgia
Carters Store
Youngsville, North Carolina
Applicator and Contractor

PAUL BATEMAN
Hotel Whiteville
Whiteville, North Carolina
Applicator

REX BEAMER
Winston-Salem, North Carolina
Applicator

ARTHUR V. BETTENCOURT
P. O. Box 191
Richlands, North Carolina
Applicator

DUKE COLVARD BLEDSOE, JR.
Laurel Springs, North Carolina
P. O. Box 191
Richlands, North Carolina
Applicator

BLUE RIDGE AIRWAYS
Box 202
Ridgeway, Virginia
Lawsonville, North Carolina
Contractor

ELMER B. BRYAN, JR.
Candor, North Carolina
Applicator

PERRY P. BRYANT
Route 1, Box 12
Stoneville, North Carolina
Applicator

RAYMOND T. BURKE
Box 471
Rocky Mount, North Carolina
Applicator and Contractor

H. E. CAMPBELL
Route 7, Box 36 AA
Fayetteville, North Carolina
Applicator

GEORGE W. CARR
Box 31
Lumberton, North Carolina
Applicator and Contractor

OSCAR B. CASE
Case Dusting Company
55 Flat Rock Avenue
Hendersonville, North Carolina
Applicator and Contractor

JAMES R. CHERRY
Cherry Flying Service
Pemberton, New Jersey
Burgaw, North Carolina
Applicator and Contractor

H. H. CHRISTOPHER
H. H. Christopher Dusting Service
Box 716
Okeechobee, Florida
Box 446, Raelord, North Carolina
Applicator and Contractor

W. U. CLYBURN
Kershaw, South Carolina
P. O. Box 207
Candor, North Carolina
Applicator

JAMES O. COMPTON, JR.
Compton's Flying Service
P. O. Box 362
South Boston, Virginia
Applicator and Contractor

THOMAS EDWARD COMPTON
Route 2
Ringgold, Virginia
Applicator

HOWARD M. COOK, JR.
Box 114
Candor, North Carolina
Daytona Beach, Florida
Applicator

JOE E. COUCH
c/o L. S. Jernigan
P. O. Box 266
Ahoskie, North Carolina
Applicator

ALFRED C. CRAICHY
Route 2
Ruffin, North Carolina
Applicator

PHIL A. CRON
1713 N. Alexander Road
Tampa, Florida
P. O. Box 191
Richlands, North Carolina
Applicator

CALVIN L. CRUSE
P. O. Box 802
Davidson, North Carolina
Applicator and Contractor

LEONARD Y. DEAN IV
Eufaula, Alabama
Candor, North Carolina
Applicator

JAMES L. DeHAVEN
c/o Jernigan Spray Service
Ahoskie, North Carolina
Coffeyville, Kansas
Applicator

FRANK C. DENTON
323 King Drive
Hendersonville, North Carolina
Applicator and Contractor

CHARLES G. DICKENS
Thomasville, North Carolina
Applicator

H. A. DOZIER, JR.
c/o Farmers Supply House
P. O. Box 1127
New Bern, North Carolina
Bunnell, Florida
Applicator

JOSEPH H. DRAKE
P. O. Box 22
Washington, North Carolina
Applicator

EURE BROS.
1712 Weber Avenue
Orlando, Florida
Seaboard, North Carolina
Contractor

MACK G. EURE
1712 Weber Avenue
Orlando, Florida
Seaboard, North Carolina
Applicator

FARMERS SUPPLY HOUSE
P. O. Box 1127
New Bern, North Carolina
Contractor

WILLIAM M. FITZPATRICK
235 Second Hill Avenue
Stratford, Connecticut
Box 191
Richlands, North Carolina
Applicator

GLENN FLEETWOOD
Jackson, North Carolina
Contractor

DOVER FOGLEMAN
Alamance Aviation Service, Inc.
Box 1331
Burlington, North Carolina
Applicator and Contractor

PAT FOLEY
P. O. Box 191
Richlands, North Carolina
Applicator

H. H. FOLTZ
Winsotn-Salem, North Carolina
Applicator

W. A. FORBES
Box 94
Winterville, North Carolina
Contractor

LINDY FORTUNE
Black Mountain, North Carolina
Oxford, North Carolina
Applicator

FOUNTAIN AERIAL SPRAY SERVICE
Chinquapin, North Carolina
Contractor

THELBERT A. FOUNTAIN
Ideal Dusting & Spray Service
Route 1, Box 214
Richlands, North Carolina
Applicator and Contractor

G. N. FUNKHOUSER, SR.
Waverly Flying Service
P. O. Box 206
Boykins, Virginia
Applicator and Contractor

L. W. FUSSELMAN
P. O. Box 191
Richlands, North Carolina
San Antonio, Texas
Applicator

CHARLES V. GARDNER
Route 2
Reidsville, N. C.
Box 6
Gainesville, Virginia
Applicator

SIDNEY E. GIBBS
Guilford College, North Carolina
Applicator

JOE GIBSON
Winston-Salem, North Carolina
Applicator

JOSEPH R. GIBSON
c/o L. S. McMahon
Route 2
Reidsville, North Carolina
Winston-Salem, North Carolina
Applicator

R. O. GODLEY
Greenville Aviation Inc.
P. O. Box 22
Washington, North Carolina
Contractor

THOMAS J. GORDON
c/o Stencil Flying Service
P. O. Box 101
Washington, North Carolina
Chicago, Illinois
Applicator

WALTER R. GRIFFIN
P. O. Box 2033
Greensboro, North Carolina
Applicator

SHERMAN W. HANKE
Box 29
Summerfield, Florida
General Delivery
Laurinburg, North Carolina
Applicator and Contractor

WILLIAM SHERMAN HART
Route 1, Box 414
Roanoke Rapids, North Carolina
Applicator

EUGENE C. HATCHELL
Box 275
Candor, North Carolina
Applicator

JOSH L. HAZELTON
Route 1
Winterville, North Carolina
Applicator

WAYNE J. HENNINGS
Route 2
Bailey, North Carolina
Applicator and Contractor

WALTER E. HIGHT, JR.
Route 2, Box 15
Henderson, North Carolina
Applicator

C. JAY HOUSER
P. O. Box 191
Richlands, North Carolina
Richmond, Indiana
Applicator

J. B. HOWELL, JR.
Concord, North Carolina
Washington, North Carolina
Applicator

DAVID M. HUBER
543 Rowland Street
Henderson, North Carolina
Gainesville, Florida
Applicator

ROBERT M. HUNT
c/o James Motor Company
Chinquapin, North Carolina
Applicator

INDIAN RIVER FLYING SERVICE,
INC.
Box 772
Vero Beach, Florida
Kinston, North Carolina
Contractor

GRANT W. JEFFRIES
Winston-Salem, North Carolina
Applicator

JERNIGAN SPRAY SERVICE, INC.
P. O. Box 266
Ahoskie, North Carolina
Contractor

PERRY W. JONES
325 Spring Street
Hendersonville, North Carolina
Applicator

JOSH JORDAN
Box 275
Candor, North Carolina
Applicator and Contractor

S. O. KELLEY
Winston-Salem, North Carolina
Applicator

EMIL JOSEPH KUTILEK
Route 1
Chinquapin, North Carolina
Yankton, South Dakota
Applicator

DONALD KEITH LAWRENCE
c/o L. S. McMahon
Route 2
Reidsville, North Carolina
Applicator

EDDIE B. LEE
c/o Turners Flying Service
P. O. Box 386
Wilson, North Carolina
Goldsboro, North Carolina
Applicator

CHARLES LEFFORGE
543 Rowland Street
Henderson, North Carolina
Elk Point, South Dakota
Applicator

CARL T. LOVE
Aero Farm Service
837 S. Church Street
Burlington, North Carolina
Applicator and Contractor

JACK LOWERS
P. O. Box 293
Clinton, North Carolina
Applicator and Contractor

MARVIN W. LYLE
P. O. Box 293
Clinton, North Carolina
Haysville, Kansas
Applicator

L. E. LYONS
Winston-Salem, North Carolina
Applicator

MAC'S SPRAY SERVICE, INC.
1408 N. Green Street
Greenville, North Carolina
Contractor

LELAND S. McMAHON

Route 2
Reidsville, North Carolina
Applicator and Contractor

LAWRENCE C. McVEY

1408 Stroud Avenue
Kinston, North Carolina
c/o Aero Dust & Spray Service
Box 191
Richlands, North Carolina
Applicator

CALVIN L. MERCER

155 60th Street
West New York, New Jersey
P. O. Box 1014
Danville, Virginia
Applicator

S. S. MILLER

Reidsville, North Carolina
Applicator

LUTHER G. MIMS

c/o Mr. R. Venters
Hookerton, North Carolina
Applicator

CLARENCE T. MODLIN

Scotland Flying Service, Inc.
Laurinburg, North Carolina
Applicator and Contractor

JAMES FRANKLIN MOSER

P. O. Box 802
Davidson, North Carolina
Applicator

MAX MULLIS

Mullis Spraying Company
P. O. Box 457
York, South Carolina
c/o A. F. Currins
Rowland, North Carolina
Applicator and Contractor

ROBERT D. NANCE, JR.

3005 Woodland Avenue
Winston-Salem, North Carolina
Applicator

JAMES A. NAYLOR

P. O. Box 63
Clinton, North Carolina
Applicator

R. A. NAYLOR

Clinton Flying Service
P. O. Box 63
Clinton, North Carolina
Applicator and Contractor

JOHN W. NEWMAN

232 N. Broad Street
Mooresville, North Carolina
General Delivery
Erwin, North Carolina
Applicator and Contractor

CHARLES E. NICKLES

405 Sunset Avenue
Clinton, North Carolina
Frankfort, Kentucky
Applicator

NEIL F. OLESON

Neil F. Oleson Crop Spraying
103 Poplar Drive
Greenville, North Carolina
Applicator and Contractor

DELMAR C. OWENS

Owens Crop Dusting Service
Route 2
Roper, North Carolina
Applicator and Contractor

JOHN E. PACE, JR.

Box 202
Ridgeway, Virginia
Lawsonville, North Carolina
Applicator

ROBERT PARKER

c/o Piedmont Aviation
Winston-Salem, North Carolina
Applicator

KENNETH LEE PASCHAL

c/o L. S. McMahon
Route 2
Reidsville, North Carolina
Applicator

DILLARD M. POWELL

Powell Flying Service
Route 2
Ruffin, North Carolina
Applicator and Contractor

F. M. POWELL

Box 145
Zebulon, North Carolina
Zellwood, Florida
Applicator and Contractor

HUGH REYNOLDS AIRPLANE DUST-
ING & SPRAYING

P. O. Box 119
Candor, North Carolina
Contractor

L. F. "JACK" REYNOLDS

P. O. Box 207
Candor, North Carolina
Applicator and Contractor

WILLIAM RICHARDSON

General Delivery
Kenansville, North Carolina
Syracuse, New York
Applicator

LEWIS CARROLL ROACH

Route 2
Reidsville, North Carolina
Axton, Virginia
Applicator

M. M. RODDY

Box 471
Rocky Mount, North Carolina
Applicator and Contractor

TED E. ROMAN

Ted Roman Crop Dusting
316 N. W. 12th Drive
Belle Glade, Florida
Route 1, Angier, North Carolina
Applicator and Contractor

JOHN WALTER ROUTT

Famplin, Virginia
Applicator

W. S. ROWE, JR.

Rowe Flying Service
P. O. Box 546
Bennettsville, South Carolina
Applicator and Contractor

FRANK SCHWEIKERT

P. O. Box 22
Washington, North Carolina
Ann Arbor, Michigan
Applicator

WILLIAM SCOTT

P. O. Box 191
Richlands, North Carolina
Applicator

VERDY H. SHEPHERD, JR.

1108 Garfield Road
Burlington, North Carolina
Applicator

NATHAN M. SIMPSON

Simpson Crop Service, Inc.
Route 1, Box 370
Brown Summit, North Carolina
Applicator and Contractor

R. R. SLATE, JR.

South Boston, Virginia
c/o Joe Smith Aerial Spraying
282 Arnett Blvd.
Danville, Virginia
Applicator

JOSEPH J. SMITH

Joe Smith Aerial Spraying
282 Arnett Blvd.
Danville, Virginia
Applicator and Contractor

THOMAS E. STANCIL, Jr.

Stancil Flying Service
P. O. Box 101
Washington, North Carolina
Applicator and Contractor

DOCK B. STARNES

Lowrys, South Carolina
Applicator

RHONDA L. STORY

Pamlico Flying Service
Bayboro, North Carolina
Applicator and Contractor

STANLEY S. SVRLINGA

General Delivery
Laurinburg, North Carolina
Box 421, Zellwood, Florida
Applicator and Contractor

GENE ALLEN SWOFFORD

P. O. Box 63
Clinton, North Carolina
1023 Gregory Street
Greensboro, North Carolina
Applicator

AYLOR TALBOTT

Aylor's Crop Spraying Service
South Boston, Virginia
Applicator and Contractor

ROBERT M. TASSELL

11903 Dowling Lane
Jacksonville, Florida
New Columbus Hotel
Whiteville, North Carolina
Applicator

ROBERT L. THOMPSON

P. O. Box 362
South Boston, Virginia
Applicator

WILLIAM J. TILLMAN

Route 1
Stanley, North Carolina
Box 191, Richlands, North Carolina
Applicator

EDWARD L. TREAT

Treats Dusting Service
1609 Citrus Avenue
Ft. Pierce, Florida
General Delivery
Angier, North Carolina
Applicator and Contractor

WENDELL K. TROGDON

Trogon Flying Service, Inc.
P. O. Box 2033
Greensboro, North Carolina
Route 1, Climax, North Carolina
Applicator and Contractor

B. W. TRUEBLOOD

Box 471
Rocky Mount, North Carolina
Applicator and Contractor

JOE C. TURNER

600 W. Colonial Avenue
Elizabeth City, North Carolina
Newport News, Virginia
Applicator

ROBERT J. TURNER, JR.

Turner's Flying Service
543 Rowland Street
Henderson, North Carolina
Applicator and Contractor

W. D. TURNER

437 Rollins Avenue
Henderson, North Carolina
Applicator

GLENN WAITE

P. O. Box 22
Washington, North Carolina
Forest, Illinois
Applicator

BEN WALKER

Winston-Salem, North Carolina
Applicator

BENNIE A. WALKER

538 University Drive
Greensboro, North Carolina
c/o L. S. McMahon
Route 2, Reidsville, North Carolina
Applicator

GEORGE D. WALTERS

516 W. Main Street
P. O. Box 84
Elizabeth City, North Carolina
Applicator and Contractor

H. C. WARF

Warf Flying Service
Route 6
Reidsville, North Carolina
Applicator and Contractor

AMOS M. WENTE

Box 1231
New Bern, N. C.
Applicator

ARTHUR V. WHIDDEN

Box 193
Bowling Green, Florida
c/o F. I. Carter
Wake Forest, North Carolina
Applicator

FRED WHITFIELD

Route 2
Burlington, North Carolina
Applicator

ROBERT O. WHITFIELD

Whitfield Crop Spraying Service
Hurdle Mills, North Carolina
Applicator and Contractor

KENNETH WHITTAKER

Mill Street
Ellerbe, North Carolina
Rowe Airport
Bennettsville, South Carolina
Applicator

JOHN H. WHITTINGTON

Dillon, South Carolina
Applicator

DANIEL B. WILDER

c/o Scotland Flying Service
Laurinburg, North Carolina
Applicator

DAN WILLIAMS

Academy Street
Madison, North Carolina
Applicator

HAROLD SYDNEY WILLIAMS

c/o Baggett Dusting Service
Lillington Airport
Lillington, North Carolina
Ft. Pierce, Florida
Applicator

J. B. WILLIAMS, JR.

Box 471
Rocky Mount, North Carolina
Applicator and Contractor

E. M. WILSON

Lava Hot Springs, Idaho
Wallace, North Carolina
Applicator

J. C. WILSON

Mooresville, North Carolina
General Delivery
Angier, North Carolina
Applicator

YADKIN VALLEY CROP SPRAYING
COMPANY

Route 1
Pfafftown, N. C.
Contractor

LONNIE YORK SPRAYING SERVICE

Ramseur, North Carolina
Contractor

Official Analyses of Economic Poisons 1956

Summary of Economic Poisons Examined — 1956

TYPES	SAMPLES				
	Passed	De- ficient	Adul- terated	Mis- branded	Not Regis- tered
Arsenicals					
Arsenic trioxide	8	---	---	---	---
Lead Arsenate	12	---	---	---	---
Paris Green	8	---	---	---	---
Sodium Arsenate	---	2	---	2	---
Sodium Arsenite	1	---	---	---	---
Arsenic with other materials	7	---	---	---	---
Organic Chlorine Compounds					
Aldrin-Aldrin with DDT-Sulfur	33	16	---	---	---
Benzene Hexachloride	15	---	---	---	---
BHC-DDT-Sulfur Mixtures	115	10	---	---	---
BHC-DDT with other materials	16	5	---	---	---
BHC with other materials	18	1	---	---	---
Captan preparations	6	---	---	---	---
Chlordane preparations	49	6	---	---	---
2,4-D - 2,4,5-T	8	---	---	---	---
DD	4	---	---	---	---
DDD (TDE) preparations	233	22	8	2	---
DDT	88	9	---	---	---
DDT with other materials	41	4	---	---	2
1,2 di bromo 3 chloro propane	3	---	---	---	---
Dieldrin	3	---	---	---	---
Dipterex	2	---	---	---	---
Endrin	40	---	---	---	---
Ethylene dichloride-Carbon Tetrachloride	6	---	---	---	---
Heptachlor preparations	7	---	---	---	---
Methoxychlor preparations	19	3	---	1	---
Toxaphene preparations	210	10	1	---	---
Spergon	---	---	---	---	1
Metallic Compounds					
Calcium compounds	3	---	---	---	---
Copper-Copper with other materials	11	---	---	---	---
Malathion preparations	34	8	---	---	1
Metallic dithiocarbamates	87	---	---	---	---
Parathion preparations	21	---	---	---	---
Phosphorus	2	---	---	---	---
Thallium sulfate	2	---	---	---	---
Botanicals					
Nicotine	1	---	---	---	---
Pyrethrins preparations	16	1	---	---	---
Rotenone preparations	138	17	---	1	3
Sabadilla	33	2	---	---	---
Miscellaneous					
Antu	1	---	---	---	---
Boron Compounds	2	---	---	---	---
Ethylene di bromide	1	---	---	---	---
EPN	1	---	---	---	---
Fluorine compounds	4	---	---	---	---
Fumarin	5	---	---	---	---
MH 30	9	---	---	---	---
Napthalene	1	---	---	---	---
Petroleum oils	1	---	---	---	---
Pine Oil	3	---	---	---	---
Pival	5	---	---	---	---
Phenols-BHC	3	8	---	---	---
Phenyl mercuric acetate	1	---	---	---	---
Potassium cyanate	1	1	---	---	---
Sodium chlorate	2	---	---	---	---
Strychnine	1	---	---	---	---
Thiram	2	---	---	---	---
Warfarin	13	---	---	---	---
TOTALS	1354	125	9	6	7

Number manufacturers registered (total)	376
Number manufacturers registered from North Carolina	52
Number items registered	3,160
Number stop sale orders issued	124

Decisions

The results of analysis of economic poisons are tabulated in the following pages. For the reader's ready interpretation of the analyses, designations used are explained in the following paragraphs.

"Passed" signifies that the labeling and composition of the product satisfactorily complied with guarantees and requirements. Small deviations in analyses are normal.

"Deficient" usually signifies that one or more ingredient fell significantly below guarantee, although it may also indicate an excess of a harmful ingredient, as in case of water-soluble arsenic. Such products, in most instances, qualify as unsatisfactory and are subject to "Stop Sale Order" and removal from the market for reprocessing or relabeling. In borderline cases, where exact values are indeterminate, the product is qualified as deficient but the manufacturer cautioned. In some instances where such goods have been used before analysis could be completed, the manufacturer has made settlement satisfactory to the user.

"Adulterated" indicates that significant quantities of undeclared active ingredients were present. Since proof of adulteration disqualifies a product, analyses may be discontinued at that point thus saving further expenditure of time and work. Such lots, batches or brands are stopped from sale and other appropriate action taken.

"Misbranded" signifies that labeling failed to conform to requirements. Omission of some item or statement is a more common flaw. Among these may be proper ingredient listing; skull and crossbones, "Poison" in red and an antidote where these are required; net contents by weight or volume; class of, and unsulfonated residues of petroleum oils; and percentages of alkaloids instead of crude product such as sabadilla seed.

In some instances of misbranding the defect appeared to be inadvertent or of a minor nature. It appeared permissible and fair to allow the manufacturer time for correction. In others, removal from sale was necessary.

"Not Registered" signifies that the product was not registered at the time it was sampled. Prompt registration is required or the product is removed from sale.

As has been the practice in past work, analyses were made largely for those ingredients which were considered of major importance, as, for example, gamma isomer of benzene hexachloride, whereas other isomers were not checked. For sake of brevity, items not generally checked are not listed in the tabulations. This should not be taken to indicate that manufacturers did not include them on labels. This procedure has been followed because it enables a broader coverage of all products offered for sale.

Official Analyses of Economic Poisons, 1956

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions*
ALDRIN			
Acme Fertilizer Company			
Aldrin Emulsion			
Aldrin	23.71	19.94	Deficient
California Spray-Chemical Corp.			
Ortho Aldrin 2.5 Dust			
Aldrin	2.50	2.10	Deficient
Daly-Herring Company			
Dee Aitch 5% Aldrin Dust			
Aldrin	5.00	4.18	Deficient
Farm Service Company			
Champion Aldrin Emulsion			
Aldrin	23.10	21.54	Deficient
Olin Mathieson Chemical Corp.			
Mathieson Aldrin 2½% Dust			
Aldrin	2.50	2.91	Passed
Mathieson Aldrin 10% Dust			
Aldrin	10.00	9.98	Passed
Aldrin Emulsifiable Concentrate			
Aldrin	25.20	22.88	Deficient
W. R. Peele Company, Inc.			
Pelco 5% Aldrin Dust			
Aldrin	5.00	5.29	Passed
Pelco 2 lb. Aldrin Emulsifiable Concentrate			
Aldrin	24.28	22.63	Deficient
do	24.28	21.21	Deficient
do	24.28	18.47	Deficient
Southern Agricultural Chemicals, Inc.			
Royal Brand Aldrin Emulsible Concentrate			
Aldrin	24.74	21.39	Deficient

* See preceding page for explanations of "Decisions."

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Taylor Chemical Company			
Superkill 20% Aldrin Emulsifiable Concentrate			
Aldrin	23.40	25.95	Passed
do	23.40	25.76	Passed
do	23.40	32.72	Passed
do	23.40	25.59	Passed
do	23.40	34.52	Passed
Superkill 23% Aldrin Emulsifiable Concentrate			
Aldrin	24.73	23.24	Deficient
ALDRIN - DDT			
Acme Fertilizer Company			
2½% Aldrin—5% DDT Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.13	3.97	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.13	4.00	
2½% Aldrin with 10% DDT			
Aldrin	2.50		Passed
DDT	10.00		
Theoretical Chlorine	6.63	7.03	
Aldrin—DDT Emulsion			
Aldrin	11.40		Deficient
DDT	23.00		
Theoretical Chlorine	20.48	19.04	
California Spray-Chemical Corp.			
Ortho Aldrin—DDT 2.5-5 Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.13	4.23	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.13	3.97	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.13	4.54	
Ortho Aldrin—DDT 2.5-10 Dust			
Aldrin	2.50		Deficient
DDT	10.00		
Theoretical Chlorine	6.63	5.97	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Carolina Chemicals, Inc.			
Flight Brand Aldrin Equivalent—DDT Dust 2½-5-0			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.13	4.14	
Davison Chemical Company			
Aldrin 118 Cotton Dust 2.5-5-0			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	3.95	4.34	
Farmers Cooperative Exchange, Inc.			
FCX 2½-5-0 Cotton Dust			
Aldrin	2.50		Deficient
DDT	5.00		
Theoretical Chlorine	4.47	4.20	
Farm Service Company			
Aldrin and DDT Dust			
Aldrin	2.50		Deficient
DDT	5.00		
Theoretical Chlorine	4.47	3.80	
Geigy Agricultural Chemicals			
Geigy 2½% Aldrin—5% DDT Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.47	4.52	
Johnson Cotton Company, Inc.			
Southern Quality 2½% Aldrin—5% DDT Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	3.95	4.03	
Naco Fertilizer Company (Now: Davison Chemical Company)			
Aldrin 118 Cotton Dust 2.5-5-0			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	3.95	4.52	
Aldrin Equivalent Cotton Dust 2.5-10-0			
Aldrin	2.50		Passed
DDT	10.00		
Theoretical Chlorine	6.97	6.68	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Olin Mathieson Chemical Corp.			
2.5-5-0 Cotton Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.13	4.52	
W. R. Peele Company, Inc.			
Pelco 2½% Aldrin—5% DDT Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	3.95	4.20	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	3.95	4.00	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	3.95	3.77	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	3.95	4.00	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	3.95	4.00	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	3.95	4.05	
Planters Chemical Corp.			
Planters Aldrin—DDT Cotton Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.13	3.94	
Swift and Company			
Swift's Gold Bear Brand Insecticide 2.5-5			
Aldrin	2.50		Deficient
DDT	5.00		
Theoretical Chlorine	4.47	3.75	
Swift's Gold Bear Insecticide Dust W D 2.5-10			
Aldrin	2.50		Deficient
DDT	10.00		
Theoretical Chlorine	6.97	6.43	
Taylor Chemical Company			
Superkill 2½% Aldrin—5% DDT Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	3.95	4.14	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Woolfolk Chemical Works, Ltd.			
2½% Aldrin Equivalent with 5% DDT			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical Chlorine	4.47	4.31	
Drain-Sol DDT Emulsifiable Spray for Cotton			
Aldrin	11.31		Passed
DDT	23.00		
Theoretical Chlorine	20.27	20.28	
ALDRIN - DDT - SULFUR			
Naco Fertilizer Company (Now: Davison Chemical Company)			
Naco Aldrin 118 Cotton Dust			
Aldrin	2.50		Passed
DDT	5.00		
Sulfur	40.00	38.75	
Theoretical Chlorine	3.95	3.76	
W. R. Peele Company, Inc.			
Pelco 2½% Aldrin—5% DDT—40% Sulfur			
Aldrin	2.50		Passed
DDT	5.00		
Sulfur	40.00	40.95	
Theoretical Chlorine	3.95	4.43	
ARSENICALS			
ARSENIC TRIOXIDE			
Anderson and Spilman			
Zip Rat and Mouse Killer			
Arsenic trioxide	2.236	2.470	Passed
Carajon Chemical Company, Inc.			
Force's Mole Killer			
Arsenic trioxide	5.00	5.41	Passed
Chamberlain Exterminators			
Chamberlains Rat Poison			
Arsenic trioxide	2.00	2.18	Passed
M. A. Chapman and Son			
Kill-Em			
Arsenic trioxide	2.20	2.33	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
F. B. Singletary, Jr. and Company			
Singletary's Rat and Mouse Killer			
Arsenic trioxide	3.50	3.37	Passed
do	3.50	3.56	Passed
Southern Chemical Company			
Nok-Out-Bam			
Arsenic trioxide	3.00	3.42	Passed
do	3.00	3.47	Passed
LEAD ARSENATE			
Acme Quality Paints, Inc.			
Acme Arsenate of Lead			
Lead arsenate	98.00		Passed
Arsenic as metallic	20.00	22.19	
Arsenic-water soluble (not more than).....	0.50	0.35	
Lead as metallic	58.00	58.21	
American Agricultural Chemical Company			
Dry Powdered Bowkers Arsenate of Lead			
Lead arsenate	98.00		Passed
Arsenic as metallic	19.50	21.12	
Arsenic-water soluble (not more than).....	0.50	0.33	
Lead as metallic	58.00	58.78	
Lead arsenate	98.00		Passed
Arsenic as metallic	19.50	23.48	
Arsenic-water soluble (not more than).....	0.50	0.37	
Lead as metallic	58.00	58.46	
Chipman Chemical Company, Inc.			
Chipman Hi Test Lead Arsenate			
Lead arsenate	98.00		Passed
Arsenic as metallic	21.00	22.80	
Arsenic-water soluble (not more than).....	0.35	0.35	
Lead as metallic	58.00	58.68	
Desoto Chemical Company, Inc.			
Gator Roach Hives			
Lead arsenate	16.20		Passed
Arsenic as metallic	3.50	3.83	
Arsenic-water soluble (not more than).....	0.10	0.10	
Lead arsenate	16.20		Passed
Arsenic as metallic	3.50	4.03	
Arsenic-water soluble (not more than).....	0.10	0.03	
Lead arsenate	16.20		Passed
Arsenic as metallic	3.50	3.71	
Arsenic-water soluble (not more than).....	0.10	0.098	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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E. I. du Pont de Nemours and Company**Du Pont Nu Rexform Lead Arsenate**

Lead arsenate	96.00		Passed
Arsenic as metallic	19.56	21.49	
Arsenic-water soluble (not more than)	0.33	0.32	
Lead as metallic	58.00	58.72	

Geigy Agricultural Chemicals**Geigy Arsenate of Lead**

Lead arsenate	98.00		Passed
Arsenic as metallic	20.00	22.92	
Arsenic-water soluble (not more than)	0.50	0.24	
Lead as metallic	58.00	58.18	
Lead arsenate	98.00		Passed
Arsenic as metallic	20.00	24.67	
Arsenic-water soluble (not more than)	0.50	0.23	
Lead as metallic	58.00	58.39	

Miller Chemical and Fertilizer Corp.**Miller Arsenate of Lead**

Lead arsenate	97.00		Passed
Arsenic as metallic	20.00	22.51	
Arsenic-water soluble (not more than)	0.50	0.46	
Lead as metallic	58.00	58.38	

Woolfolk Chemical Works, Ltd.**Security Brand Lead Arsenate**

Lead arsenate	98.00		Passed
Arsenic as metallic	19.56	23.17	
Arsenic-water soluble (not more than)	0.33	0.23	
Lead as metallic	58.00	58.78	

PARIS GREEN**Acme Quality Paints, Inc.****Acme Paris Green**

Copper acetoarsenite	90.00		Passed
Arsenic as metallic	40.00	42.06	
Arsenic-water soluble (not more than)	2.70	1.38	
Copper as metallic	23.00	23.02	
Copper acetoarsenite	90.00		Passed
Arsenic as metallic	40.00	41.89	
Arsenic-water soluble (not more than)	2.70	2.68	
Copper as metallic	23.00	23.50	
Copper acetoarsenite	90.00		Passed
Arsenic as metallic	40.00	41.90	
Arsenic-water soluble (not more than)	2.70	1.66	
Copper as metallic	23.00	23.38	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Allied Chemical and Dye Corporation
General Chemical Division

Orchard Brand Paris Green

Copper acetoarsenite	91.70		Passed
Arsenic as metallic	40.65	43.26	
Arsenic-water soluble (not more than).....	2.70	2.64	
Copper as metallic	23.00	22.50	
Copper acetoarsenite	91.70		Passed
Arsenic as metallic	40.65	43.36	
Arsenic-water soluble (not more than).....	2.70	1.34	
Copper as metallic	23.00	24.31	
Copper acetoarsenite	91.70		Passed
Arsenic as metallic	39.76	41.54	
Arsenic-water soluble (not more than).....	2.65	2.03	
Copper as metallic	22.50	24.34	

H. G. Hutson and Sons

Fish Dust

Copper acetoarsenite	3.00		Passed
Arsenic as metallic	1.33	1.42	
Arsenic-water soluble (not more than).....	0.036	0.18	
Copper as metallic		0.72	
Copper acetoarsenite	3.00		Passed
Arsenic as metallic	1.33	1.73	
Arsenic-water soluble (not more than).....	0.036	0.035	

SODIUM ARSENATE

Mahaffey Company

Mahaffey's Ant Killer

Sodium arsenate	6.00	3.10	Misbranded
Arsenic as metallic	1.00	1.25	Deficient
Sodium arsenate	6.00	4.89	Misbranded
Arsenic as metallic	1.00	1.96	Deficient

SODIUM ARSENITE

Rotenone Products Company

Antchek Ant Trap

Sodium arsenite	0.25		Passed
Arsenic as metallic	0.13	0.17	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ARSENIC - COPPER			
Acme Quality Paints, Inc.			
Acme Tomato Dust			
Basic copper arsenate	18.00		Passed
Arsenic as metallic	4.80	4.84	
Arsenic-water soluble (not more than).....	0.50	0.22	
Copper as metallic	10.00	10.92	
Niagara Chemical Division			
Food Machinery and Chemical Corp.			
C.O.C.S. Cuke and Melon Dust			
Calcium arsenate	5.25		Passed
Arsenic as metallic	1.95	2.28	
Arsenic-water soluble (not more than).....	0.50	0.33	
Copper as metallic	5.00	5.45	
ARSENIC - COPPER - SULFUR - ZINC			
Woolfolk Chemical Works, Ltd.			
Pan Apple Spray			
Lead arsenate	14.80	14.17	Passed
Arsenic as metallic	3.20	3.06	
Arsenic-water soluble (not more than)	0.20	0.17	
Copper as metallic	3.50	3.64	
Sulfur	41.00	40.70	
Zinc as metallic	5.00	5.10	
ARSENIC - METALDEHYDE			
California Spray-Chemical Corp.			
Ortho Bug-Geta Snail Pellets			
Calcium arsenate	5.00		Passed
Arsenic as metallic	1.88	2.52	
Metaldehyde	2.00	2.67	
Calcium arsenate	5.00		Passed
Arsenic as metallic	1.88	2.39	
Metaldehyde	3.25	3.52	
ARSENIC - SULFUR - ZINC			
Woolfolk Chemical Works, Ltd.			
Pan Peach Spray			
Lead arsenate	11.50		Passed
Arsenic as metallic	2.40	2.57	
Arsenic-water soluble (not more than)	0.20	0.18	
Sulfur	34.00	34.74	
Zinc as metallic	9.60	10.18	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pan Peach Spray (Continued)			
Lead arsenate	11.50		Passed
Arsenic as metallic	2.40	2.61	
Arsenic-water soluble (not more than)	0.20	0.18	
Sulfur	34.00	34.25	
Zinc as metallic	9.60	10.39	
BHC			
California Spray-Chemical Corp.			
Ortho Louse, Tick and Flea Powder			
Gamma isomer of BHC	1.00	1.68	Passed
do	1.00	1.63	Passed
do	1.00	1.35	Passed
do	1.00	1.63	Passed
Isotox Transplanter Solution			
Gamma isomer of BHC	5.00	7.31	Passed
Ortho BHC Wettable			
Gamma isomer of BHC	6.00	6.09	Passed
Farmers Cooperative Exchange, Inc.			
FCX 1% Lindane Dust			
Gamma isomer of BHC	1.00	1.05	Passed
do	1.00	1.05	Passed
do	1.00	1.07	Passed
Dr. L. D. LeGear Medicine Company			
Dr. LeGear's New Louse Powder			
Gamma isomer of BHC	1.00	0.98	Passed
do	1.00	1.05	Passed
do	1.00	1.07	Passed
Maxwell Insecticide Company, Inc.			
1% Lindane Dust			
Gamma isomer of BHC	1.00	1.20	Passed
Pennsylvania Salt Manufacturing Company			
Penco Transplant Liquid			
Gamma isomer of BHC	5.00	5.29	Passed
do	5.00	5.14	Passed
BHC - CHLORANIL			
Polk Miller Products Corp.			
Sergeant's Skip-Flea Scratch Powder			
Gamma isomer of BHC	1.00	1.01	Passed
Chloranil	5.00	4.93	
Perfume	0.20	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Sergeant's Skip-Flea Scratch Powder (Continued)			
Gamma isomer of BHC	1.00	1.15	Passed
Chloranil	5.00	4.80	
Perfume	0.20	Present	

**BHC - CHLORANIL - PIPERONYL BUTOXIDE -
PYRETHRINS**

Polk Miller Products Corp.

Sergeant's Skip-Flea Scratch Powder

Gamma isomer of BHC	1.00	1.00	Passed
Chloranil	5.00	5.04	
Piperonyl butoxide	0.45	0.30	
Pyrethrins	0.045	0.042	

BHC - COPPER

California Spray-Chemical Corp.

Isotox-K 1-7 Dust

Gamma isomer of BHC	1.00	1.00	Passed
Copper as metallic	7.00	7.17	

Niagara Chemical Division

Food Machinery and Chemical Corp.

Niagara C-O-C-S Gamkil 1 Dust

Gamma isomer of BHC	1.00	1.02	Passed
Copper as metallic	6.00	6.42	

Southern Agricultural Insecticides, Inc.

**SA-50 Brand Cucumber and Squash Dust
(with 1% Lindane)**

Gamma isomer of BHC	1.00	1.40	Passed
Copper as metallic	6.50	6.59	
Gamma isomer of BHC	1.00	1.30	Passed
Copper as metallic	6.50	6.59	
Gamma isomer of BHC	1.00	1.42	Passed
Copper as metallic	6.50	6.50	
Gamma isomer of BHC	1.00	1.75	Passed
Copper as metallic	6.50	6.19	

BHC - DICHLOROPHENE

Happy Jack, Inc.

Happy Jack Flea-Tick Powder

Gamma isomer of BHC	1.00	1.23	Passed
Dichlorophene	2.00		
Theoretical chlorine	1.26		

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**BHC - DICHLOROPHENE -
HEXACHLOROPHENE**

William Cooper and Nephews, Inc.

Coopers Pulvex Flea Powder

Gamma isomer of BHC	0.50		Passed
Dichlorophene	0.50		
Hexachlorophene	0.50		
Theoretical chlorine	0.77	0.95	
Gamma isomer of BHC	0.50		Passed
Dichlorophene	0.50		
Hexachlorophene	0.50		
Theoretical chlorine	0.77	0.81	
Gamma isomer of BHC	0.50		Passed
Dichlorophene	0.50		
Hexachlorophene	0.50		
Theoretical chlorine	0.77	0.82	

**BHC - DICHLOROPHENE -
TRICHLOROPHENOL**

William Cooper and Nephews, Inc.

Cooper Pulvex Flea Powder

Gamma isomer of BHC	0.50		Passed
Dichlorophene	0.50		
Trichlorophenol	0.50		
Theoretical chlorine	0.76	0.73	

BHC - DICHLOROPHENE - MALATHION

Happy Jack, Inc.

Happy Jack Flea-Tick Powder

BHC	1.00		Deficient
Dichlorophene	2.00		
Malathion	2.00	0.89	
Theoretical chlorine	1.26	1.31	

**BHC - HEXACHLOROPHENE -
MERCAPTOBENZOTHAZOLE**

Westchester Veterinary Products

Dr. Merrick's Scratchex Powder

Gamma isomer of BHC	1.00		Passed
Hexachlorophene	0.50		
Mercaptobenzothiazole	1.50	1.46	
Theoretical chlorine	0.99	0.95	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**BHC - METHYLATED NAPHTHALENE -
ORGANIC THIOCYANATES - PYRETHRINS**

Eagle Products Company

Spra-Kill Special Spray

Gamma isomer of BHC	0.100	0.160	Passed
Methylated Naphthalenes	0.386	Present	
Thanite	1.250	Present	
Pyrethrins	0.024	0.022	

BHC - METHYLENE BIS CHLOROPHENOL

Greever's Inc.

Greever's Flea Powder

Gamma isomer of BHC	1.00		Passed
Methylene bis chlorophenol	0.50		
Theoretical chlorine	0.86	0.95	

BHC - PINE OIL

Ralston Purina Company

Purina Poultry Insecticide (Roost Paint)

Gamma isomer of BHC	1.50	1.64	Passed
Pine oil	5.00	Present	

BHC - PIPERONYL BUTOXIDE - PYRETHRINS

Boyle-Midway, Inc.

Black Flag Push Button Roach and Ant Killer

Gamma isomer of BHC	0.30	0.40	Passed
Piperonyl butoxide	0.40	0.41	
Pyrethrins	0.05	0.06	

BHC - DDT

Acme Fertilizer Company

Acme 3% BHC—5% DDT

Gamma isomer of BHC	3.00	2.95	Passed
DDT	5.00	5.45	
Gamma isomer of BHC	3.00	2.85	Passed
DDT	5.00	5.05	
Gamma isomer of BHC	3.00	3.69	Passed
DDT	5.00	4.85	

**Allied Chemical and Dye Corp.
General Chemical Division**

3-5-0 Cotton Dust

Gamma isomer of BHC	3.00	2.89	Passed
DDT	5.00	5.01	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
California Spray-Chemical Corp.			
Gammacide 3-5 Cotton Dust			
Gamma isomer of BHC	3.00	2.99	Passed
DDT	5.00	5.35	
Gamma isomer of BHC	3.00	3.11	Passed
DDT	5.00	5.35	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	4.85	
Gamma isomer of BHC	3.00	2.90	Passed
DDT	5.00	5.23	
Gamma isomer of BHC	3.00	3.10	Passed
DDT	5.00	5.15	
Gamma isomer of BHC	3.00	2.97	Passed
DDT	5.00	4.82	
Gamma isomer of BHC	3.00	2.98	Passed
DDT	5.00	5.04	
Gammacide 3-10 Cotton Dust			
Gamma isomer of BHC	3.00	3.22	Deficient
DDT	10.00	8.37	
Carolina Chemicals, Inc.			
Flight Brand BHC-DDT Dust 3-5-0			
Gamma isomer of BHC	3.00	3.05	Passed
DDT	5.00	5.27	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	4.95	
Farmers Cooperative Exchange, Inc.			
FCX 3-5-0 BHC-DDT Dust			
Gamma isomer of BHC	3.00	2.93	Passed
DDT	5.00	5.12	
Gamma isomer of BHC	3.00	3.03	Passed
DDT	5.00	5.07	
Gamma isomer of BHC	3.00	3.12	Passed
DDT	5.00	5.32	
Gamma isomer of BHC	3.00	3.23	Passed
DDT	5.00	4.91	
Gamma isomer of BHC	3.00	2.85	Passed
DDT	5.00	4.90	
Gamma isomer of BHC	3.00	2.88	Passed
DDT	5.00	5.09	
Gamma isomer of BHC	3.00	2.99	Passed
DDT	5.00	5.23	
Gamma isomer of BHC	3.00	2.90	Passed
DDT	5.00	5.04	
Gamma isomer of BHC	3.00	2.91	Passed
DDT	5.00	4.96	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Geigy Agricultural Chemicals			
Geigy 3-5 Cotton Dust			
Gamma isomer of BHC	3.00	2.86	Passed
DDT	5.00	5.00	
Maxwell Insecticide Company			
Maxwell 3-5-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.03	Passed
DDT	5.00	5.18	
Naco Fertilizer Company (Now: Davison Chemical Company)			
Naco Benny-Hex Cotton Dust 3-5-0			
Gamma isomer of BHC	3.00	3.57	Passed
DDT	5.00	5.81	
Gamma isomer of BHC	3.00	3.38	Passed
DDT	5.00	4.78	
Gamma isomer of BHC	3.00	2.91	Passed
DDT	5.00	5.55	
Gamma isomer of BHC	3.00	2.91	Passed
DDT	5.00	5.30	
Naco Benny-Hex Cotton Dust 3-10-0			
Gamma isomer of BHC	3.00	3.17	Passed
DDT	10.00	10.17	
Gamma isomer of BHC	3.00	3.15	Passed
DDT	10.00	10.16	
Niagara Chemical Division (Food Machinery and Chemical Corp.)			
Niagara Two-N-One Cotton Dust			
Gamma isomer of BHC	3.00	3.22	Passed
DDT	5.00	5.70	
Gamma isomer of BHC	3.00	3.22	Passed
DDT	5.00	5.95	
Olin Mathieson Chemical Corp.			
Mathieson 3-5-0 Cotton Dust			
Gamma isomer of BHC	3.00	2.93	Passed
DDT	5.00	4.97	
Gamma isomer of BHC	3.00	3.28	Passed
DDT	5.00	5.32	
Gamma isomer of BHC	3.00	3.08	Passed
DDT	5.00	5.28	
Gamma isomer of BHC	3.00	3.24	Passed
DDT	5.00	4.88	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Mathieson 3-5-0 Cotton Dust (Continued)			
Gamma isomer of BHC	3.00	2.98	Passed
DDT	5.00	5.38	
Gamma isomer of BHC	3.00	3.05	Passed
DDT	5.00	6.01	
Gamma isomer of BHC	3.00	3.18	Passed
DDT	5.00	5.21	
Gamma isomer of BHC	3.00	2.88	Passed
DDT	5.00	4.82	
Gamma isomer of BHC	3.00	3.03	Passed
DDT	5.00	4.77	
Mathieson 3-10-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.23	Passed
DDT	10.00	9.77	
Gamma isomer of BHC	3.00	2.91	Passed
DDT	10.00	9.75	
Gamma isomer of BHC	3.00	3.64	Passed
DDT	10.00	10.06	
Gamma isomer of BHC	3.00	3.16	Passed
DDT	10.00	9.87	
Gamma isomer of BHC	3.00	2.85	Deficient
DDT	10.00	9.10	
Gamma isomer of BHC	3.00	3.14	Deficient
DDT	10.00	9.13	
W. R. Peele Company, Inc.			
Pelco 3-5 Cotton Dust			
Gamma isomer of BHC	3.00	3.11	Passed
DDT	5.00	5.18	
Gamma isomer of BHC	3.00	3.22	Passed
DDT	5.00	5.08	
Gamma isomer of BHC	3.00	3.06	Passed
DDT	5.00	5.05	
Gamma isomer of BHC	3.00	3.28	Passed
DDT	5.00	5.95	
Gamma isomer of BHC	3.00	2.92	Passed
DDT	5.00	5.04	
Gamma isomer of BHC	3.00	3.23	Passed
DDT	5.00	5.65	
Gamma isomer of BHC	3.00	3.18	Passed
DDT	5.00	5.00	
Gamma isomer of BHC	3.00	3.42	Passed
DDT	5.00	5.00	
Gamma isomer of BHC	3.00	3.34	Passed
DDT	5.00	5.39	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Swift and Company			
Swift's Gold Bear Cotton Dust 3-5			
Gamma isomer of BHC	3.00	2.63	Deficient
DDT	5.00	4.97	
Swift's Gold Bear Brand Cotton Dust 3-10			
Gamma isomer of BHC	3.00	3.09	Deficient
DDT	10.00	9.12	
Taylor Chemical Company			
Superkill 3-5 Cotton Dust (without Sulfur)			
Gamma isomer of BHC	3.00	3.36	Passed
DDT	5.00	5.27	
Gamma isomer of BHC	3.00	3.03	Passed
DDT	5.00	5.06	
Gamma isomer of BHC	3.00	2.86	Passed
DDT	5.00	4.99	
Gamma isomer of BHC	3.00	2.95	Passed
DDT	5.00	5.24	
Gamma isomer of BHC	3.00	2.92	Passed
DDT	5.00	5.00	
Gamma isomer of BHC	3.00	3.17	Passed
DDT	5.00	4.76	
Gamma isomer of BHC	3.00	3.11	Passed
DDT	5.00	4.88	
Gamma isomer of BHC	3.00	2.88	Passed
DDT	5.00	5.17	
Gamma isomer of BHC	3.00	3.25	Passed
DDT	5.00	5.25	
Gamma isomer of BHC	3.00	3.05	Passed
DDT	5.00	5.03	
Gamma isomer of BHC	3.00	3.20	Passed
DDT	5.00	5.12	
Gamma isomer of BHC	3.00	3.28	Passed
DDT	5.00	5.38	
Gamma isomer of BHC	3.00	3.08	Passed
DDT	5.00	4.95	
Gamma isomer of BHC	3.00	3.10	Passed
DDT	5.00	5.13	
Gamma isomer of BHC	3.00	3.22	Passed
DDT	5.00	5.21	
Gamma isomer of BHC	3.00	3.36	Passed
DDT	5.00	5.26	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Supercill 3-10 Cotton Dust			
Gamma isomer of BHC	3.00	3.15	Deficient
DDT	10.00	7.89	
Gamma isomer of BHC	3.00	3.07	Passed
DDT	10.00	10.33	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	10.00	9.61	
Gamma isomer of BHC	3.00	2.85	Passed
DDT	10.00	9.66	
Gamma isomer of BHC	3.00	3.21	Passed
DDT	10.00	10.15	

Woolfolk Chemical Works, Ltd.
Security Brand 3-5-0 Cotton Dust

Gamma isomer of BHC	3.00	3.03	Passed
DDT	5.00	5.70	
Gamma isomer of BHC	3.00	3.05	Passed
DDT	5.00	5.94	
Gamma isomer of BHC	3.00	2.88	Passed
DDT	5.00	5.18	
Gamma isomer of BHC	3.00	3.07	Passed
DDT	5.00	5.25	
Gamma isomer of BHC	3.00	2.91	Passed
DDT	5.00	5.39	

Security Brand 3-10-0 Cotton Dust

Gamma isomer of BHC	3.00	3.40	Passed
DDT	10.00	10.38	

BHC - DDT - ARAMITE - DDD - FERBAM
California Spray-Chemical Corp.
Ortho Home Orchard Spray

Gamma isomer of BHC	2.00		Deficient
DDT	8.00		
Aramite	4.25		
DDD	8.00		
Ferric dimethyl dithiocarbamate	12.25	8.91	Passed
Theoretical chlorine	9.44	10.51	
Gamma isomer of BHC	2.00		
DDT	8.00		
Aramite	4.25		Passed
DDD	8.00		
Ferric dimethyl dithiocarbamate	12.25	12.14	
Theoretical chlorine	9.46	9.36	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Ortho Home Orchard Spray (Continued)			
Gamma isomer of BHC	2.00		Deficient
DDT	8.00		
Aramite	4.25		
DDD	8.00		
Ferric dimethyl dithiocarbamate	12.25	9.86	
Theoretical chlorine	9.46	9.17	
BHC - DDT - CAPTAN - FERBAM - SULFUR			
California Spray-Chemical Corp.			
Ortho Rose Dust			
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50	3.50	
Sulfur	40.00	42.42	
Theoretical chlorine	5.88	6.20	
Gamma isomer of BHC	1.00		Deficient
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50	2.40	
Sulfur	40.00	42.75	
Theoretical chlorine	5.88	6.11	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50		
Sulfur	40.00	42.95	
Theoretical chlorine	5.88	5.60	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50		
Sulfur	40.00	41.07	
Theoretical chlorine	5.88	5.60	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50	3.65	
Sulfur	40.00	43.25	
Theoretical chlorine	5.88	6.56	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50	3.68	
Sulfur	40.00	43.17	
Theoretical chlorine	5.88	5.94	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50	3.60	
Sulfur	40.00	41.25	
Theoretical chlorine	5.88	6.82	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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BHC - DDT - FERBAM - ROTENONE - SULFUR

Carbola Chemical Company, Inc.

Carbola Rose Dust or Spray

Gamma isomer of BHC	0.50	0.48	Passed
DDT	5.00	5.02	
Ferric dimethyl dithiocarbamate	7.00	6.98	
Rotenone	0.75	Present	
Sulfur	20.00	19.56	

BHC - DDT - FERBAM - SULFUR

Carbola Chemical Company, Inc.

CCC Fruit Tree Spray

Gamma isomer of BHC	0.50	0.69	Deficient
DDT	7.00	7.32	
Ferric dimethyl dithiocarbamate	5.00	3.57	
Sulfur	33.00	33.62	

BHC - DDT - METHYLATED NAPHTHALENE

Taylor Chemical Company

Superkill 3-5 BHC-DDT Emulsion

Gamma isomer of BHC	8.70	9.46	Passed
DDT	14.50	16.34	
Methylated naphthalene	35.50	Present	
Gamma isomer of BHC	8.70	9.18	Passed
DDT	14.50	16.08	
Methylated naphthalene	35.50	Present	

BHC - DDT - PARATHION

Mathieson Chemical Corp.

(Now: Olin Mathieson Chemical Corp.)

Mathieson 3-5-1 Cotton Dust

Gamma isomer of BHC	3.00	3.48	Deficient
DDT	5.00	8.28	
Parathion	1.00	0.35	
Gamma isomer of BHC	3.00	3.03	Passed
DDT	5.00	10.16	
Parathion	1.00	1.09	

Olin Mathieson Chemical Corp.

Mathieson 3-5-1 Cotton Dust

Gamma isomer of BHC	3.00	3.06	Passed
DDT	5.00	5.77	
Parathion	1.00	1.11	
Gamma isomer of BHC	3.00	2.90	Passed
DDT	5.00	5.30	
Parathion	1.00	0.98	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Mathieson 3-5-1 Cotton Dust (Continued)			
Gamma isomer of BHC	3.00	3.18	Passed
DDT	5.00	5.50	
Parathion	1.00	1.03	
Taylor Chemical Company			
Superkill 3-10-1 Cotton Dust			
Gamma isomer of BHC	3.00	2.90	Passed
DDT	10.00	9.90	
Parathion	1.00	1.15	
Woolfolk Chemical Works, Ltd.			
3-5-1 Cotton Dust			
Gamma isomer of BHC	3.00	3.23	Passed
DDT	5.00	5.30	
Parathion	1.00	1.03	
BHC - DDT - SULFUR			
Acme Fertilizer Company			
3% BHC—5% DDT—40% Sulfur			
Gamma isomer of BHC	3.00	3.24	Passed
DDT	5.00	5.54	
Sulfur	40.00	38.00	
Gamma isomer of BHC	3.00	2.93	Passed
DDT	5.00	5.20	
Sulfur	40.00	39.22	
California Spray-Chemical Corp.			
Gammicide 3-5-40 Cotton Dust			
Gamma isomer of BHC	3.00	3.15	Passed
DDT	5.00	4.88	
Sulfur	40.00	43.25	
Gamma isomer of BHC	3.00	2.98	Passed
DDT	5.00	4.96	
Sulfur	40.00	42.27	
Carolina Chemicals, Inc.			
Flight Brand BHC-DDT-Sulfur Dust 3-5-40			
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	4.82	
Sulfur	40.00	41.25	
Farmers Cooperative Exchange, Inc.			
FCX 3-5-40 BHC-DDT-Sulfur			
Gamma isomer of BHC	3.00	2.91	Passed
DDT	5.00	5.50	
Sulfur	40.00	42.18	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
FCX 3-5-40 BHC-DDT-Sulfur (Continued)			
Gamma isomer of BHC	3.00	3.09	Passed
DDT	5.00	5.00	
Sulfur	40.00	41.35	
Niagara Chemical Division (Food Machinery and Chemical Corp.)			
Niagara Three-N-One Cotton Dust			
Gamma isomer of BHC	3.00	3.81	Passed
DDT	5.00	5.81	
Sulfur	40.00	42.50	
Olin Mathieson Chemical Corp.			
Mathieson 3-5-40 Cotton Dust			
Gamma isomer of BHC	3.00	3.13	Deficient
DDT	5.00	5.53	
Sulfur	40.00	35.28	
Gamma isomer of BHC	3.00	2.55	Deficient
DDT	5.00	4.44	
Sulfur	40.00	44.55	
Gamma isomer of BHC	3.00	3.01	Deficient
DDT	5.00	6.16	
Sulfur	40.00	36.00	
Gamma isomer of BHC	3.00	3.30	Passed
DDT	5.00	5.36	
Sulfur	40.00	40.07	
W. R. Peele Company, Inc.			
Pelco 3-5-40 Dust			
Gamma isomer of BHC	3.00	2.86	Passed
DDT	5.00	5.12	
Sulfur	40.00	41.40	
Gamma isomer of BHC	3.00	3.14	Passed
DDT	5.00	4.96	
Sulfur	40.00	42.12	
Gamma isomer of BHC	3.00	3.22	Passed
DDT	5.00	5.30	
Sulfur	40.00	39.58	
Gamma isomer of BHC	3.00	2.86	Passed
DDT	5.00	5.00	
Sulfur	40.00	39.63	
Swift and Company			
Swift's Gold Bear Brand Cotton Dust 3-5-40			
Gamma isomer of BHC	3.00	3.13	Deficient
DDT	5.00	5.87	
Sulfur	40.00	37.65	
Gamma isomer of BHC	3.00	3.36	Passed
DDT	5.00	5.41	
Sulfur	40.00	38.40	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Taylor Chemical Company			
Superkill 3-5-40 Cotton Dust			
Gamma isomer of BHC	3.00	3.28	Passed
DDT	5.00	5.70	
Sulfur	40.00	41.25	
Gamma isomer of BHC	3.00	3.18	Passed
DDT	5.00	5.94	
Sulfur	40.00	39.63	
Gamma isomer of BHC	3.00	3.47	Passed
DDT	5.00	5.35	
Sulfur	40.00	41.47	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	4.97	
Sulfur	40.00	40.01	
Gamma isomer of BHC	3.00	3.10	Passed
DDT	5.00	5.28	
Sulfur	40.00	39.90	
Gamma isomer of BHC	3.00	3.24	Passed
DDT	5.00	5.32	
Sulfur	40.00	39.55	
Gamma isomer of BHC	3.00	2.90	Passed
DDT	5.00	5.50	
Sulfur	40.00	41.42	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	5.14	
Sulfur	40.00	40.42	
Gamma isomer of BHC	3.00	3.15	Passed
DDT	5.00	4.98	
Sulfur	40.00	39.92	
Gamma isomer of BHC	3.00	3.23	Passed
DDT	5.00	5.00	
Sulfur	40.00	41.45	
Gamma isomer of BHC	3.00	3.26	Passed
DDT	5.00	5.31	
Sulfur	40.00	39.68	
Gamma isomer of BHC	3.00	3.23	Passed
DDT	5.00	5.36	
Sulfur	40.00	40.92	
Gamma isomer of BHC	3.00	3.17	Passed
DDT	5.00	5.35	
Sulfur	40.00	40.87	
Superkill 3-10-40 Cotton Dust			
Gamma isomer of BHC	3.00	3.57	Passed
DDT	10.00	10.66	
Sulfur	40.00	38.95	
Gamma isomer of BHC	3.00	3.36	Passed
DDT	10.00	10.60	
Sulfur	40.00	39.18	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Woolfolk Chemical Works, Ltd.			
3-5-40 Cotton Dust (BHC-DDT-Sulfur)			
Gamma isomer of BHC	3.00	3.26	Passed
DDT	5.00	5.33	
Sulfur	40.00	41.33	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	5.38	
Sulfur	40.00	40.90	
Gamma isomer of BHC	3.00	3.08	Passed
DDT	5.00	5.81	
Sulfur	40.00	42.32	
Gamma isomer of BHC	3.00	3.04	Passed
DDT	5.00	5.33	
Sulfur	40.00	43.30	
Gamma isomer of BHC	3.00	3.19	Passed
DDT	5.00	5.67	
Sulfur	40.00	42.87	
3-10-40 Cotton Dust (BHC-DDT-Sulfur)			
Gamma isomer of BHC	3.00	3.49	Passed
DDT	10.00	10.46	
Sulfur	40.00	41.53	

CAPTAN

California Spray-Chemical Corp.

Orthocide 50-Wettable (50% Captan)

Captan	50.00	50.10	Passed
do	50.00	56.11	Passed
do	50.00	52.60	Passed
do	50.00	58.11	Passed

Stauffer Chemical Company

Captan 50 W

Captan	50.00	56.11	Passed
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CAPTAN - NITRO PHENOLS

Acme Quality Paints, Inc.

Acme Garden Fungicide

Captan	30.00	32.05	Passed
Dinitro phenyl crotonate	2.70		
Other nitro phenols and derivatives	0.30		
Total nitrogen from nitro compounds31	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
CHLORDANE			
California Spray-Chemical Corp.			
Ortho-Klor Chlordane Dust			
Chlordane	5.00	5.75	Passed
Ortho-Klor 10 Chlordane Dust			
Chlordane	10.00	10.29	Passed
Ortho-Klor 44 Chlordane Spray			
Chlordane	44.00	42.60	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 73% Chlordane			
Chlordane	73.00	74.57	Passed
Carbola Chemical Company, Inc.			
Carbola 6% Chlordane Dust			
Chlordane	6.00	5.53	Deficient
do	6.00	6.17	Passed
do	6.00	6.17	Passed
Farmers Cooperative Exchange, Inc.			
50% Wettable Chlordane Powder			
Chlordane	50.00	52.85	Passed
do	50.00	48.21	Passed
do	50.00	49.97	Passed
do	50.00	51.43	Passed
Graham Chemical Company			
Red Star Ant Dust			
Chlordane	6.00	7.29	Passed
do	6.00	6.51	Passed
Red Star 50% Chlordane (Wettable Powder)			
Chlordane	50.00	47.32	Deficient
do	50.00	49.64	Passed
Greever's, Inc.			
Greever's Chlordane Emulsion Concentrate			
Chlordane	45.00	45.20	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 5% Chlordane Dust			
Chlordane	5.00	4.93	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Planters Chemical Corp.			
Planters 40% Wetttable Chlordane			
Chlordane	40.00	38.57	Passed
Polk Miller Products Corp.			
Sergeant's Skip Bath			
Chlordane	0.25	0.35	Passed
Rigo Manufacturing Company, Inc.			
Kill-Ko 10% Chlordane Dust			
Chlordane	10.00	10.50	Passed
do	10.00	7.57	Deficient
O. M. Scott and Sons Company			
Cope			
Chlordane	9.00	9.78	Passed
Scott's Lawn and Turf Pest Control			
Chlordane	9.00	9.84	Passed
Sears, Roebuck & Company			
Cross Country Ant Killer			
Chlordane	10.00	9.57	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 5% Chlordane Dust			
Chlordane	5.00	5.29	Passed
do	5.00	4.93	Passed
Royal Brand Wettable Chlordane 40% Concentrate			
Chlordane	40.00	40.28	Passed
Tobacco By-Products and Chemical Corp. (Now: Diamond Black Leaf Company)			
Black Leaf 5% Chlordane Dust			
Chlordane	5.00	5.00	Passed
Virginia-Carolina Chemical Corp. (Now: Diamond Black Leaf Company)			
Black Leaf 5% Chlordane Dust			
Chlordane	5.00	5.13	Passed
do	5.00	5.14	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand 5% Chlordane Dust			
Chlordane	5.00	5.04	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
CHLORDANE - BHC			
California Spray-Chemical Corp.			
Ortho Ant Powder			
Chlordane	2.50		Passed
Gamma isomer of BHC	0.50		
Theoretical chlorine	2.10	2.30	
CHLORDANE - BHC - PYRETHRINS			
Esso Standard Oil Company			
Flit Bug Killer			
Chlordane	2.00		Passed
Gamma isomer of BHC	0.05		
Pyrethrins	0.05	0.061	
Theoretical chlorine	1.32	1.46	
CHLORDANE - BORIC ACID			
Heller Laboratories, Inc.			
\$1000 Roach Killer			
Chlordane	0.20	0.18	Passed
Boric acid	51.00	50.96	
CHLORDANE - DDT			
Graham Chemical Company			
Red Star Ant Dust			
Chlordane	10.00	9.53	Deficient
DDT	5.00	2.90	
CHLORDANE - DIELDRIN			
California Spray-Chemical Corp.			
Ortho Lawn and Garden Granules (contains Dieldrin-Chlordane)			
Chlordane	1.00		Passed
Dieldrin	4.00		
Theoretical chlorine	2.86	2.79	
Ortho Ant Powder			
Chlordane	2.50	Present	Passed
Dieldrin	0.50	Present	
Theoretical chlorine	1.88	2.32	
Chlordane	2.50		Passed
Dieldrin	0.50		
Theoretical chlorine	1.88	1.96	
Chlordane	2.50		Passed
Dieldrin	0.50		
Theoretical chlorine	1.88	2.41	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
CHLORDANE - ORGANIC THIOCYANATES			
Allied Drug Products Company			
Magic Brand Roach and Insect Killer			
Chlordane	2.00	1.94	Passed
Lethane 384 Special	1.20	1.18	
Rigo Manufacturing Company, Inc.			
Kill-Ko Roach and Ant Killer			
Chlordane	2.50	3.63	Passed
Lethane 384 Special	2.70	3.31	
Scott Industries			
Pleezing Insect Spray			
Chlordane	2.00	2.09	Passed
Beta butoxy beta thiocyno diethylether..	1.00	1.32	
Swift and Company			
End-O-Pest ARC Dust			
Chlordane	8.00	7.43	Deficient
Lethane 384 Special	1.00	1.15	
Chlordane	8.00	7.66	Passed
Lethane 384 Special	1.00	1.32	
Chlordane	8.00	8.62	Passed
Lethane 384 Special	1.00	1.29	
CHLORDANE - PIPERONYL BUTOXIDE - PYRETHRINS			
Allied Drug Products Company			
Magic Brand Bug Killer			
Chlordane	2.00	2.40	Passed
Piperonyl butoxide	0.115	.156	
Pyrethrins046	.052	
The Dill Company			
Dill's D-K			
Chlordane	2.00	2.00	Passed
Piperonyl butoxide	0.075	0.075	
Pyrethrins	0.015	0.020	
Dixie-Home Stores (Now: Winn-Dixie Stores, Inc.)			
Roach and Ant Killer			
Chlordane	2.00	2.02	Passed
Piperonyl butoxide	0.115	0.123	
Pyrethrins	0.046	0.052	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
CHLORDANE - PYRETHRINS			
C-B Drug Company			
C-B Double Action Insect Spray			
Chlordane	2.00	2.59	Passed
Pyrethrins	0.034	0.040	
Chlordane	2.00	2.52	Passed
Pyrethrins	0.034	0.040	
Chlordane	2.00	1.80	Deficient
Pyrethrins	0.034	0.034	
Ralston Purina Company			
Purina Roach Spray			
Chlordane	2.00	2.22	Passed
Pyrethrins	0.05	0.048	
CHLORDANE - TOXAPHENE			
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Cut Worm Bait			
Chlordane	1.50		Passed
Toxaphene	2.00		
Theoretical chlorine	2.30	2.60	
Chlordane	1.50		Passed
Toxaphene	2.00		
Theoretical chlorine	2.30	2.96	
COPPER			
Allied Chemical and Dye Corp. General Chemical Division			
Orchard Brand Bordeaux Mixture			
Copper as metallic	12.75	13.35	Passed
Carbola Chemical Company, Inc.			
CCC Copper Dust			
Copper as metallic	6.00	5.95	Passed
Mike, Inc.			
101 Brand Tomato Dust			
Copper as metallic	7.00	6.73	Passed
Miller Chemical and Fertilizer Corp.			
Bor-Tox Copper Mixture			
Copper as metallic	12.75	12.66	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Tomato Dust			
Copper as metallic	7.00	7.57	Passed
do	7.00	7.01	Passed
do	7.00	7.19	Passed
do	7.00	7.48	Passed
SA-50 Brand Instant Copper Sulphate			
Copper as metallic	25.00	25.15	Passed
Tennessee Copper Company			
Copper Sulphate			
Copper as metallic	25.20	25.37	Passed
CUPROUS OXIDE			
Rohm and Haas Company			
Yellow Cuprocide			
Cuprous oxide	90.00	89.76	Passed
2, 4-D			
Donaldson Company, Inc.			
Killer-Kane Kartridge (weed killer)			
Sodium salts of 2,4-D acid	30.00		Passed
2,4-D acid equivalent	24.60	24.20	
Killer-Kane Kartridge			
Sodium salts of 2,4-D acid	34.00		Passed
2,4-D acid equivalent	30.92	30.05	
The Dow Chemical Company			
Dow Home Use Weed Killer			
Alkanolamine salts of 2,4-D	23.80		Passed
2,4-D acid equivalent	14.00	14.52	
Olin Mathieson Chemical Corp.			
Amine 40 Weed Killer			
Di-methyl amine salt of 2,4-D acid	49.40	49.74	Passed
Swift and Company			
Gold Bear Brand Amine Weed Control			
Isopropyl & di-isopropanol amine salts of 2,4-D	56.00		Passed
2,4-D acid equivalent	40.40	40.07	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico 2,4-D Ester Weed Killer			
Isopropyl Ester of 2,4-D	44.00	46.34	Passed
2, 4-D - 2, 4, 5-T			
California Spray-Chemical Corp.			
Ortho Improved Weed-B-Gon			
Tetrahydrofurfuryl ester of 2,4-D	13.80		Passed
Tetrahydrofurfuryl ester of 2,4,5-T	6.60		
Theoretical phenoxyacetic acid	9.86	10.37	
O. M. Scott & Sons Company			
Kansel			
Propylene glycol butyl ether esters of 2,4,5-T	2.70		Passed
2,4,5-T acid equivalent	1.70	1.62	
D - D			
Shell Chemical Corp.			
Shell D-D (a soil fumigant)			
Chlorinated C ₃ hydrocarbons	100.00		Passed
Total chlorine		56.23	
Chlorinated C ₃ hydrocarbons	100.00		Passed
Total chlorine		54.30	
Chlorinated C ₃ hydrocarbons	100.00		Passed
Total chlorine		57.47	
Chlorinated C ₃ hydrocarbons	100.00		Passed
Total chlorine		57.37	
DDD			
Acme Fertilizer Company			
TDE Emulsion			
DDD	24.00	25.49	Passed
do	24.00	25.67	Passed
do	24.00	25.16	Passed
Apex Chemical Company			
TDE Tobacco Dust			
DDD	10.00	9.57	Passed
do	10.00	10.14	Passed
do	10.00	10.36	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
California Spray-Chemical Corp.			
Orthene 3D 10% Dust			
DDD	10.00	9.07	Deficient
do	10.00	9.93	Passed
do	10.00	10.22	Passed
do	10.00	10.14	Passed
do	10.00	10.14	Passed
do	10.00	10.29	Passed
do	10.00	9.93	Passed
do	10.00	10.22	Passed
do	10.00	10.72	Passed
Orthene 3D 2 Spray			
DDD	25.00	26.45	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand Tobacco Dust 10% TDE			
DDD	10.00		Deficient Adulterated*
do	10.00		Deficient Adulterated*
do	10.00		Deficient Adulterated*
do	10.00		Deficient Adulterated*
do	10.00		Deficient Adulterated*
do	10.00	10.00	Passed
do	10.00	10.22	Passed
do	10.00		Deficient Adulterated*
do	10.00		Deficient Adulterated*
do	10.00	10.07	Passed
do	10.00	9.86	Passed
do	10.00	10.00	Passed
do	10.00	9.86	Passed
do	10.00	10.36	Passed
do	10.00	9.93	Passed
do	10.00	10.50	Passed
do	10.00	10.79	Passed
Tiger Brand TDE Emulsion Concentrate			
DDD	25.00	25.44	Passed
do	25.00	25.20	Passed
do	25.00	27.21	Passed
do	25.00	25.36	Passed
do	25.00	25.21	Passed
do	25.00	24.84	Passed

* DDT present.

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Carolina Chemicals, Inc.			
Flight Brand 10% Rhothane Dust			
DDD	10.00	10.93	Passed
Carter Insecticide & Chemical Company, Inc.			
Carolina Tobacco Dust 10% TDE			
DDD	10.00	10.64	Passed
25% TDE Emulsion Tobacco Insect Killer			
DDD	25.00	23.69	Deficient
do	25.00	24.62	Passed
do	25.00	24.38	Passed
do	25.00	25.06	Passed
do	25.00	24.42	Passed
Coastal Chemical Corp.			
10% TDE Dust			
DDD	10.00	10.16	Passed
Daly-Herring Company			
Bacco Spray Emulsion Concentrate			
DDD	25.00	26.07	Passed
do	25.00	24.73	Passed
do	25.00	24.62	Passed
Davison Chemical Company			
Naco 10% DDD Dust			
DDD	10.00	10.29	Passed
do	10.00	10.00	Passed
do	10.00	10.36	Passed
do	10.00	10.07	Passed
do	10.00	9.86	Passed
do	10.00	10.36	Passed
do	10.00	10.00	Passed
do	10.00	9.86	Passed
Diamond Black Leaf Company			
Black Leaf Tobacco Formula 10% Rhothane Dust			
DDD	10.00	12.00	Passed
Farmers Cooperative Exchange, Inc.			
FCX TDE Dust			
DDD	10.00	9.64	Passed
do	10.00	9.86	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
FCX TDE Dust (Continued)			
DDD	10.00	9.86	Passed
do	10.00	10.29	Passed
do	10.00	10.14	Passed
do	10.00	10.36	Passed
do	10.00	10.00	Passed
do	10.00	10.00	Passed
do	10.00	9.86	Passed
do	10.00	10.00	Passed
do	10.00	10.14	Passed
do	10.00	10.22	Passed
do	10.00	10.22	Passed
do	10.00	9.86	Passed
do	10.00	11.21	Passed
do	10.00	9.93	Passed
do	10.00	10.22	Passed
do	10.00	10.36	Passed
do	10.00	9.93	Passed
do	10.00	10.29	Passed
do	10.00	9.86	Passed
do	10.00	10.07	Passed

Farm Service Company

Champion Tobacco Spray Rhothane Emulsion

DDD	23.98	24.77	Passed
do	23.98	24.65	Passed
do	23.98	24.41	Passed
do	23.98	24.38	Passed
do	23.98	24.90	Passed
do	23.98	25.10	Passed

Graham Chemical Company

Graham's Red Star 10% Rhothane Dust

DDD	10.00	9.00	Deficient
do	10.00	9.14	Deficient
do	10.00	10.00	Passed
do	10.00	9.57	Passed
do	10.00	9.79	Passed
do	10.00	10.22	Passed
do	10.00	9.93	Passed
do	10.00	9.64	Passed
do	10.00	10.14	Passed
do	10.00	10.22	Passed
do	10.00	9.79	Passed
do	10.00	10.14	Passed
do	10.00	10.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Howerton Gowen Company, Inc.			
Gowen's 10% Rhothane Dust			
DDD	10.00	10.31	Passed
H & M Chemical Company, Inc.			
"Mo-Di" TDE 10 Dust			
DDD	10.00	8.79	Deficient
Johnson Cotton Company, Inc.			
Southern Quality 10% TDE Tobacco Dust			
DDD	10.00	10.11	Passed
Mathieson Chemical Corp. (Now: Olin Mathieson Chemical Corp.)			
Mathieson 10% Rhothane Dust			
DDD	10.00	9.86	Passed
do	10.00	11.07	Passed
25% Rhothane Spray Concentrate			
DDD	25.00	24.74	Passed
do	25.00	25.36	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 10% TDE Dust			
DDD	10.00	9.14	Deficient
do	10.00	10.07	Passed
do	10.00	10.00	Passed
do	10.00	10.43	Passed
do	10.00	10.00	Passed
do	10.00	10.00	Passed
do	10.00	10.00	Passed
do	10.00	10.07	Passed
do	10.00	9.86	Passed
do	10.00	10.14	Passed
do	10.00	10.14	Passed
do	10.00	10.00	Passed
do	10.00	10.43	Passed
do	10.00	10.14	Passed
do	10.00	10.14	Passed
do	10.00	10.07	Passed
do	10.00	10.87	Passed
do	10.00	9.86	Passed
do	10.00	9.93	Passed
do	10.00	10.14	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell 10% TDE Dust (Continued)			
DDD	10.00	10.07	Passed
do	10.00	10.14	Passed
do	10.00	10.22	Passed
do	10.00	10.22	Passed
do	10.00	10.43	Passed
do	10.00	9.93	Passed
do	10.00	10.00	Passed
do	10.00	10.72	Passed
Maxwell 25% Rhothane Emulsion Concentrate			
DDD	25.00	24.60	Passed
Naco Fertilizer Company (Now: Davison Chemical Company)			
Naco 10% DDD Dust			
DDD	10.00	9.93	Passed
do	10.00	9.99	Passed
do	10.00	9.64	Passed
do	10.00	10.29	Passed
do	10.00	10.00	Passed
do	10.00	10.43	Passed
do	10.00	8.66	Deficient
do	10.00	None	Misbranded*
Olin Mathieson Chemical Corp.			
Mathieson 10% Rhothane Dust			
DDD	10.00	12.28	Passed
do	10.00	9.57	Passed
do	10.00	10.43	Passed
do	10.00	10.07	Passed
do	10.00	10.14	Passed
do	10.00	10.57	Passed
do	10.00	10.50	Passed
do	10.00	10.36	Passed
do	10.00	11.00	Passed
do	10.00	10.07	Passed
do	10.00	10.43	Passed
do	10.00	10.57	Passed
do	10.00	10.93	Passed
do	10.00	10.29	Passed
do	10.00	9.72	Passed
do	10.00	11.21	Passed
do	10.00	9.72	Passed

* Found-DDT 9.24%.

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Mathieson TDE 25% Emulsifiable Concentrate			
DDD	25.00	26.48	Passed
do	25.00	Neg.	Deficient
do	25.00	24.11	Misbranded*
do	25.00	26.00	Passed
do	25.00	26.91	Passed
Pee Dee Chemicals, Inc.			
10% TDE Dust			
DDD	10.00	10.79	Passed
W. R. Peele Company, Inc.			
Pelco Rhothane Tobacco Dust (Contains 10% TDE)			
DDD	10.00	9.29	Deficient
do	10.00	10.86	Passed
do	10.00	10.43	Passed
do	10.00	9.72	Passed
do	10.00	9.72	Passed
do	10.00	10.00	Passed
do	10.00	9.50	Passed
do	10.00	9.86	Passed
do	10.00	9.93	Passed
do	10.00	10.00	Passed
do	10.00	9.93	Passed
do	10.00	10.00	Passed
do	10.00	10.36	Passed
do	10.00	10.00	Passed
do	10.00	10.29	Passed
do	10.00	10.14	Passed
do	10.00	9.72	Passed
do	10.00	9.64	Passed
do	10.00	10.22	Passed
do	10.00	9.72	Passed
do	10.00	10.00	Passed
do	10.00	10.43	Passed
do	10.00	10.36	Passed
do	10.00	9.93	Passed
do	10.00	10.00	Passed
do	10.00	10.86	Passed
do	10.00	10.43	Passed
do	10.00	10.22	Passed
do	10.00	10.36	Passed
do	10.00	9.72	Passed
do	10.00	10.50	Passed

* Found-DDT 9.24%.

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Planters Chemical Corp.			
Planters 10% TDE Dust			
DDD	10.00	9.07	Deficient
do	10.00	9.93	Passed
do	10.00	9.93	Passed
Planters 25% TDE Emulsion Concentrate			
DDD	25.00	24.13	Passed
do	25.00	24.08	Passed
Quality Chemical Corp.			
10% TDE Dust			
DDD	10.00	9.29	Deficient
do	10.00	8.21	Deficient
do	10.00	8.31	Deficient
do	10.00	10.14	Passed
do	10.00	10.22	Passed
do	10.00	9.79	Passed
do	10.00	10.57	Passed
do	10.00	10.36	Passed
do	10.00	10.43	Passed
do	10.00	9.86	Passed
do	10.00	9.93	Passed
do	10.00	10.57	Passed
do	10.00	9.86	Passed
do	10.00	10.14	Passed
do	10.00	10.00	Passed
do	10.00	10.79	Passed
do	10.00	10.29	Passed
do	10.00	10.57	Passed
do	10.00	10.50	Passed
Smith Seed & Feed Company			
Early Bird 10% DDD or TDE Dust			
DDD	10.00	9.36	Deficient
do	10.00	9.72	Passed
do	10.00	10.14	Passed
do	10.00	10.00	Passed
do	10.00	9.86	Passed
do	10.00	10.14	Passed
Southern Agricultural Chemicals, Inc.			
Royal Brand Rhothane Spray Concentrate			
DDD	23.80	24.81	Passed
do	23.80	24.50	Passed
do	23.80	24.03	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Taylor Chemical Company			
Superkill Tobacco Dust (Contains 10% TDE)			
DDD	10.00	10.07	Passed
do	10.00	10.29	Passed
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico TDE Emulsifiable Concentrate			
DDD	25.00	24.11	Passed
do	25.00	24.81	Passed
Virginia-Carolina Chemical Corp. (Now: Diamond Black Leaf Company)			
Black Leaf Tobacco Formula 10% TDE Dust			
DDD	10.00	10.29	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand 10% 3-D's Dust			
DDD	10.00	9.93	Passed
DDD - PARATHION			
Atlas Agricultural Chemicals, Inc.			
Atlas Tobacco Dust 10% TDE—Parathion 1%			
DDD	10.00	10.00	Passed
Parathion	1.00	0.95	
DDD	10.00	10.50	Passed
Parathion	1.00	0.98	
California Spray-Chemical Corp.			
Ortho Vapophos 3D 1-10 Dust 1% Parathion			
DDD	10.00	10.43	Passed
Parathion	1.00	1.05	
DDD	10.00	9.79	Passed
Parathion	1.00	1.07	
DDD	10.00	10.00	Passed
Parathion	1.00	1.54	
DDD	10.00	9.72	Passed
Parathion	1.00	1.22	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Cape Fear Chemicals, Inc.			
Tiger Brand 1-10 Triple Quick Tobacco Dust			
Rhothane-Parathion			
DDD	10.00	10.57	Passed
Parathion	1.00	1.09	
Carter Insecticide & Chemical Company, Inc.			
Carolina Tobacco Dust 10% TDE—1% Parathion			
DDD	10.00	9.64	Passed
Parathion	1.00	0.95	
Farmers Cooperative Exchange, Inc.			
FCX 1% Parathion—10% TDE			
DDD	10.00	10.00	Passed
Parathion	1.00	1.08	
Geigy Agricultural Chemicals			
Geigy 10% DDD—1% Parathion Dust			
DDD	10.00	10.43	Passed
Parathion	1.00	0.99	
Mathieson Chemical Corporation (Now: Olin Mathieson Chemical Corp.)			
Mathieson Tobacco Dust TDE 10% Rhothane			
1% Parathion			
DDD	10.00	10.50	Deficient
Parathion	1.00	0.86	
DDD	10.00	10.57	Passed
Parathion	1.00	1.17	
Olin Mathieson Chemical Corp.			
Mathieson Tobacco Dust 10% Rhothane			
1% Parathion			
DDD	10.00	10.29	Passed
Parathion	1.00	1.07	
DDD	10.00	10.00	Passed
Parathion	1.00	1.17	
Quality Chemical Corp.			
Quality Tobacco Dust 10% Rhothane			
DDD	10.00	10.43	Passed
Parathion	1.00	1.11	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Chemicals, Inc.			
Royal Brand 10% Rhothane Dust with 1% Parathion			
DDD	10.00	10.36	Passed
Parathion	1.00	1.05	
DDD	10.00	10.36	Passed
Parathion	1.00	1.00	
DDD	10.00	10.22	Passed
Parathion	1.00	1.03	
Southern Agricultural Insecticides, Inc.			
SA-50 Horn Worm Dust			
DDD	5.00		Adulterated*
Parathion	1.00	1.25	
Taylor Chemical Company			
Superkill Tobacco Dust No. 1			
DDD	10.00	10.93	Passed
Parathion	1.00	1.48	
DDT			
Allied Chemical and Dye Corp. General Chemical Division			
Genitox S-50 50% (Wettable Spray Powder)			
DDT	50.00	49.64	Passed
Boyle-Midway, Inc.			
Black Flag 25% DDT Emulsion Concentrate			
DDT	25.00	24.94	Passed
California Spray-Chemical Corp.			
Persisto 5 Dust			
DDT	5.00	5.47	Passed
Persisto 10 Dust			
DDT	10.00	9.93	Passed
Persisto 50 Dust			
DDT	50.00	47.83	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 5% DDT Dust			
DDT	5.00	5.00	Passed
do	5.00	5.03	Passed
do	5.00	5.36	Passed
do	5.00	4.75	Passed
do	5.00	4.96	Passed
do	5.00	4.89	Passed

* DDT present.

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Tiger Brand 10% DDT Dust			
DDT	10.00	8.00	Deficient
do	10.00	10.00	Passed
do	10.00	10.20	Passed
C-B Drug Sales Company			
5% DDT Insect Spray			
DDT	5.00	5.02	Passed
Central Chemical Corp.			
Farmrite Hort Spray 50% DDT			
DDT	50.00	48.92	Passed
S. A. Crisp Canine Company			
Crisp Flea Powder			
DDT	5.00	5.07	Passed
Daly-Herring Company			
Dee Aitch 5% DDT Dust			
DDT	5.00	4.82	Passed
Farmers Cooperative Exchange, Inc.			
FCX 5% DDT Dust			
DDT	5.00	5.18	Passed
do	5.00	5.11	Passed
do	5.00	5.11	Passed
do	5.00	5.00	Passed
do	5.00	4.96	Passed
do	5.00	5.00	Passed
do	5.00	5.00	Passed
do	5.00	5.04	Passed
FCX 10% DDT Dust			
DDT	10.00	8.89	Deficient
do	10.00	10.29	Passed
do	10.00	10.22	Passed
do	10.00	9.64	Passed
do	10.00	10.00	Passed
do	10.00	10.14	Passed
FCX 50% Wettable Powder			
DDT	50.00	52.85	Passed
do	50.00	47.50	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Florida Agricultural Supply Company			
Fasco Ideal Brand 10% DDT Dust			
DDT	10.00	11.42	Passed
Graham Chemical Company			
Red Star 5% DDT Dust			
DDT	5.00	5.43	Passed
do	5.00	4.89	Passed
do	5.00	5.36	Passed
Gulf Refining Company			
Gulf Trak Moth Spray 6% DDT			
DDT	6.00	5.98	Passed
do	6.00	6.08	Passed
Lebanon Chemical Corp.			
Lebanon DDT-10			
DDT	10.00	10.00	Passed
O. E. Linck Company, Inc.			
Tat 35% DDT Solution (Concentrate)			
DDT	35.00	38.09	Passed
Mathieson Chemical Corp.			
Mathieson 5% DDT Dust			
DDT	5.00	5.18	Passed
do	5.00	5.14	Passed
Maxwell Chemical Company, Inc.			
Maxwell 5% DDT Dust			
DDT	5.00	4.89	Passed
Maxwell 10% DDT Dust			
DDT	10.00	9.93	Passed
do	10.00	9.71	Passed
Mike, Inc.			
101 Brand 10% DDT Dust			
DDT	10.00	9.00	Deficient
Miller Chemical & Fertilizer Company			
Miller 50% DDT Wettable Powder			
DDT	50.00	49.28	Passed
do	50.00	48.22	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Naco Fertilizer Company (Now: Davison Chemical Company)			
Naco 5% DDT Dust			
DDT	5.00	5.07	Passed
do	5.00	4.50	Deficient
do	5.00	4.82	Passed
do	5.00	4.93	Passed
do	5.00	5.66	Passed
Naco 10% DDT Dust			
DDT	10.00	9.79	Passed
do	10.00	9.35	Deficient
do	10.00	10.29	Passed
do	10.00	9.86	Passed
Niagara Chemical Division Food Machinery and Chemical Corp.			
Niagara DDT 5% Dust			
DDT	5.00	5.53	Passed
Niatox 50			
DDT	50.00	50.00	Passed
do	50.00	51.77	Passed
Olin Mathieson Chemical Corp.			
Mathieson DDT 5% Dust			
DDT	5.00	5.14	Passed
Mathieson DDT 10% Dust			
DDT	10.00	10.99	Passed
W. R. Peele Company, Inc.			
Pelco 5% DDT Dust			
DDT	5.00	5.14	Passed
do	5.00	5.04	Passed
do	5.00	5.11	Passed
do	5.00	5.04	Passed
do	5.00	5.11	Passed
10% DDT Dust			
DDT	10.00	10.00	Passed
Pennsylvania Salt Manufacturing Company			
Knox-Out Insecticide Powder 10% DDT Dust			
DDT	10.00	10.29	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Planters Chemical Corp.			
Planters 5% Truk Dust			
DDT	5.00	5.10	Passed
Quality Chemical Corp.			
5% DDT Dust			
DDT	5.00	5.70	Passed
do	5.00	4.71	Deficient
Sears, Roebuck & Company			
Cross Country Insect Spray (Containing 50% DDT)			
DDT	50.00	50.71	Passed
do	50.00	50.00	Passed
Smith Seed & Feed Company			
Old Belt Tobacco Flea Beetle Dust (Containing 5% DDT)			
DDT	5.00	5.04	Passed
do	5.00	4.86	Passed
do	5.00	4.32	Deficient
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 5% DDT Dust			
DDT	5.00	7.86	Passed
do	5.00	5.18	Passed
do	5.00	5.29	Passed
do	5.00	5.11	Passed
SA-50 Brand 10% DDT Dust			
DDT	10.00	9.14	Deficient
do	10.00	9.00	Deficient
do	10.00	10.64	Passed
do	10.00	9.57	Passed
do	10.00	10.43	Passed
do	10.00	13.00	Passed
do	10.00	10.29	Passed
do	10.00	9.86	Passed
do	10.00	10.43	Passed
do	10.00	10.43	Passed
SA-50 Brand 50% Wettable DDT Spray Concentrate			
DDT	50.00	50.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Taylor Chemical Company			
Superkill 50% DDT Powder Wettable			
DDT	50.00	49.64	Passed
Tobacco By-Products & Chemical Corp. (Now: Diamond Black Leaf Company)			
Black Leaf Wettable 50% DDT Powder			
DDT	50.00	48.00	Passed
Virginia-Carolina Chemical Corp. (Now: Diamond Black Leaf Company)			
Black Leaf Wettable 50% DDT Powder			
DDT	50.00	51.78	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand 10% DDT Dust			
DDT	10.00	9.93	Passed
DDT - ALLETHRIN - METHOXYCHLOR - ORGAINC THIOCYANATES			
D & A Company, Inc.			
Pow Aerosol Insecticide			
DDT	2.00		Passed
Allethrin	0.10	Present	
Methoxychlor	1.00		
Thanite	1.00	Present	
Theoretical chlorine	1.31	1.29	
DDT - ALLETHRIN - ORGANIC THIOCYANATES			
Bridgeport Brass Company			
Bridgeport Bug Bomb			
DDT	2.00	2.26	Passed
Allethrin	0.10	Present	
Beta butoxy beta thiocyanodiethyl ether	1.06	Present	
Colonial Stores, Inc.			
Southern Manor Aerosol Spray			
DDT	2.00	2.06	Passed
Allethrin	1.00	Present	
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions*	
Southern Manor Insecticide Aerosol Spray				
DDT	2.00	2.09	Passed	
Allethrin	0.125	Present		
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	Passed	
Methylated aromatic petroleum derivative	5.00	Present		
DDT	2.00	2.09		
Allethrin	0.125	Present		
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	Passed	
Methylated aromatic petroleum derivative	5.00	Present		
John C. Stalfort & Sons, Inc.				
Pleezing Aerosol Insect Bomb				
DDT	2.00	2.47	Passed	
Allethrin	0.125	Present		
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	Passed	
Methylated aromatic petroleum derivative	5.00	Present		
Tru-Pine Company				
P-51 Insect Spray				
DDT	3.00	2.95	Passed	
Allethrin	0.10	Present		
Thanite	2.00	Present		
DDT - COPPER				
Carbola Chemical Company, Inc.				
CCC 3-7 Dust				
DDT	3.00	3.30	Passed	
Copper as metallic	7.00	7.23		
Farmers Cooperative Exchange, Inc.				
FCX Potato Dust				
DDT	3.00	3.00	Passed	
Copper as metallic	7.00	7.10		
Mike, Inc.				
101 Brand Potato Dust with 5% DDT				
DDT	5.00	4.53	Deficient	
Copper as metallic	6.50	6.46		

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Naco Fertilizer Company (Now: Davison Chemical Company)			
Naco 7% Copper & 3% DDT Dust			
DDT	3.00	2.56	Deficient
Copper as metallic	7.00	6.98	
DDT	3.00	3.04	Passed
Copper as metallic	7.00	7.00	
Olin Mathieson Chemical Corp.			
5% Potato & Tomato Dust			
DDT	5.00	5.14	Passed
Copper as metallic	7.00	7.00	
Planters Chemical Corp.			
Planters Dee-Kop Dust #5			
DDT	5.00	5.82	Passed
Copper as metallic	7.00	7.18	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Potato Dust with 5% DDT			
DDT	5.00	5.29	Passed
Copper as metallic	6.50	6.55	
DDT	5.00	5.43	Passed
Copper as metallic	6.50	6.93	
DDT	5.00	5.43	Passed
Copper as metallic	6.50	6.71	
DDT - COPPER - METHYL NAPHTHALENE			
Miller Chemical & Fertilizer Corp.			
Miller Tomato Dust D 1-C 7			
DDT	1.00	1.32	Passed
Copper as metallic	7.00	6.67	
Methyl naphthalene	2.00	Present	
DDT - FERBAM			
Farmers Cooperative Exchange, Inc.			
FCX 11.4 Ferbam & 5% DDT Dust			
DDT	5.00	5.18	Passed
Ferric dimethyl dithiocarbamate	11.40	11.22	
DDT	5.00	5.07	Passed
Ferric dimethyl dithiocarbamate	11.40	11.18	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Olin Mathieson Chemical Corp.			
Ferbam— DDT Dust			
DDT	3.00	2.93	Passed
Ferric dimethyl dithiocarbamate	11.00	11.73	
DDT - FERBAM - SULFUR			
Farmers Cooperative Exchange, Inc.			
FCX Rose Dust			
DDT	5.00	5.53	Passed
Ferric dimethyl dithiocarbamate	7.60	7.57	
Sulfur	75.00	78.70	
DDT	5.00	5.11	Not Registered
Ferric dimethyl dithiocarbamate	7.00	7.40	
Sulfur	70.00	72.30	
DDT - LEAD ARSENATE - SULFUR			
Niagara Chemical Division			
Food Machinery and Chemical Corp.			
Kalo Fruit Tree Dust or Spray			
DDT	7.50	7.99	Passed
Lead arsenate	15.00		
Sulfur	52.00	55.70	
Arsenic as metallic	2.10	3.29	
Arsenic water soluble (not more than)	0.50	0.14	
Lead as metallic	10.20	11.36	
B. G. Pratt Company			
Pratt's Fruit Tree Spray or Dust			
DDT	7.50	8.14	Passed
Lead Arsenate	14.40		
Sulfur	62.00	65.36	
Arsenic as metallic	2.10	2.72	
Arsenic water soluble (not more than)	0.50	0.14	
Lead as metallic	10.00	11.45	
DDT - METHOXYCHLOR - PARADICHLOROBENZENE			
Boyle-Midway, Inc.			
Black Flag Moth Ded			
DDT	5.00		Passed
Methoxychlor	1.00		
Paradichlorobenzene	5.00	Present	
Theoretical chlorine	2.81	3.21	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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DDT - METHYLATED NAPHTHALENE - ORGANIC THIOCYANATES

Boyle-Midway, Inc.

Black Flag Insect Spray (DDT 5%)

DDT	5.00	5.33	Passed
Methylated naphthalenes	8.50	Present	
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	
DDT	5.00	5.32	Passed
Methylated naphthalenes	8.50	Present	
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	
DDT	5.00	5.80	Passed
Methylated naphthalenes	8.50	Present	
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	

DDT - ORGANIC THIOCYANATES

Rigo Manufacturing Company, Inc.

Kill-Ko Flea & Insect Powder 10% DDT

DDT	10.00	8.79	Deficient
Beta beta dithiocyanodiethyl ether	0.50	Present	
DDT	10.00	10.00	Passed
Beta beta dithiocyanodiethyl ether	0.50	Present	

DDT - PARATHION - SULFUR

California Spray-Chemical Corp.

Persistophos-S 5-1.5-25 Dust

DDT	5.00	5.11	Passed
Parathion	1.50	1.56	
Sulfur	25.00	25.55	
DDT	5.00	5.11	Passed
Parathion	1.50	1.68	
Sulfur	25.00	27.50	

Florida Agricultural Supply Company

Fasco Ideal Parathion DDT Suldust 1.5-5-30

DDT	5.00	4.92	Passed
Parathion	1.50	1.68	
Sulfur	30.00	30.28	

Southern Agricultural Insecticides, Inc.

1½% Parathion Dust with 5% DDT

DDT	5.00	4.57	Deficient
Parathion	1.50	1.49	
Sulfur	25.00	22.38	
DDT	5.00	5.50	Passed
Parathion	1.50	1.76	
Sulfur	25.00	26.83	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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1½% Parathion Dust with 5% DDT (Continued)

DDT	5.00	5.07	Passed
Parathion	1.50	1.82	
Sulfur	25.00	26.86	

DDT - PIPERONYL BUTOXIDE - PYRETHRINS

Farmers Cooperative Exchange, Inc.

Unico Household Spray

DDT	0.25	0.27	Passed
Piperonyl butoxide	0.20	0.25	
Pyrethrins	0.02	0.026	

United Cooperatives, Inc.

(Now: Farmers Cooperative Exchange, Inc.)

Unico Household Spray

DDT	0.25	0.35	Passed
Piperonyl butoxide	0.20	0.25	
Pyrethrins	0.02	0.025	
DDT	0.25	0.27	Passed
Piperonyl butoxide	0.20	0.24	
Pyrethrins	0.02	0.024	
DDT	0.25	0.24	Passed
Piperonyl butoxide	0.20	0.25	
Pyrethrins	0.02	0.026	

DDT - METHYLATED NAPHTHALENES -
PYRETHRINS - SESAME OIL

Pennsylvania Salt Manufacturing Company

Knox Out Insect Spray

DDT	5.00	5.50	Passed
Methylated Naphthalenes	6.00	Present	
Pyrethrins	0.02	0.026	
Sesame oil	0.08	Present	

DDT - PYRETHRINS

Dr. L. D. LeGear Medicine Company

Dr. LeGear's Flea & Tick Powder 10% DDT

DDT	10.00	9.50	Passed
Pyrethrins	0.5	0.42	
DDT	10.00	9.57	Passed
Pyrethrins	0.50	0.48	
DDT	10.00	9.50	Passed
Pyrethrins	0.50	0.49	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Metro Chemical Company			
Metro DDT Insect Powder (Contains 10% DDT with Pyrethrins)			
DDT	10.00	11.00	Not Registered
Pyrethrins	5.00	0.082	
DDT - TOXAPHENE			
Niagara Chemical Division			
Food Machinery and Chemical Corp.			
Niagara Toxakill 10 Niatox 5 Dust			
DDT	5.00	4.79	Passed
Toxaphene	10.00	9.65	
DIELDRIN			
Boyle-Midway, Inc.			
Antrol Lawntrol (with Dieldrin)			
Dieldrin	2.50	2.54	Passed
Taylor Chemical Company			
Superkill 15% Dieldrin Emusifiable Concentrate			
Dieldrin	15.80	16.15	Passed
Virginia-Carolina Chemical Corp.			
(Now: Diamond Black Leaf Company)			
Black Leaf 5% Dieldrin Granular Insecticide			
Dieldrin	5.00	6.20	Passed
ENDRIN			
California Spray-Chemical Corp.			
Ortho Endrin 1.5 Dust			
Endrin	1.50	1.70	Passed
do	1.50	1.61	Passed
do	1.50	1.85	Passed
Ortho Endrin 1.6 Spray			
Endrin	19.50	20.73	Passed
Carolina Chemicals, Inc.			
Flight Brand Endrin Dust			
Endrin	1.50	1.74	Passed
Coastal Chemical Corp.			
1.5% Endrin Dust			
Endrin	1.50	1.95	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Daly-Herring Company			
Dee Aitch Endrin Emulsifiable Concentrate			
Endrin	19.50	20.12	Passed
Farmers Cooperative Exchange, Inc.			
FCX 1½% Endrin Dust			
Endrin	1.50	1.70	Passed
do	1.50	1.64	Passed
Farm Service Company			
Champion Endrin Emulsifiable Concentrate			
Endrin	19.50	20.25	Passed
do	19.50	19.94	Passed
Mathieson Chemical Corp. (Now: Olin Mathieson Chemical Corp.)			
Mathieson Endrin 1.5% Dust			
Endrin	1.50	1.60	Passed
Mathieson Endrin 1.6 Emulsifiable Concentrate			
Endrin	18.48	21.10	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 1½% Endrin Dust			
Endrin	1.50	1.79	Passed
do	1.50	1.74	Passed
do	1.50	1.64	Passed
Olin Mathieson Chemical Corporation			
Mathieson Endrin 1.5% Dust			
Endrin	1.50	2.72	Passed
W. R. Peele Company, Inc.			
Pelco 1% Endrin Dust			
Endrin	1.00	1.39	Passed
do	1.00	1.80	Passed
do	1.00	1.16	Passed
do	1.00	1.22	Passed
do	1.00	1.10	Passed
Pelco Endrin Emulsifiable Concentrate			
Endrin	19.50	19.16	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Planters Chemical Corporation			
Planters 1½% Endrin Dust			
Endrin	1.50	1.69	Passed
do	1.50	1.79	Passed
do	1.50	1.58	Passed
do	1.50	1.69	Passed
Quality Chemical Corp.			
1% Endrin Dust			
Endrin	1.00	1.27	Passed
do	1.00	1.14	Passed
1½% Endrin Dust			
Endrin	1.50	2.27	Passed
do	1.50	1.83	Passed
Southern Agricultural Chemicals, Inc.			
1.5% Endrin Dust			
Endrin	1.50	1.88	Passed
Royal Brand Endrin Emulsifiable Concentrate			
Endrin	19.50	19.04	Passed
do	19.50	20.00	Passed
Taylor Chemical Company			
Superkill 1½% Endrin Dust			
Endrin	1.50	1.55	Passed
do	1.50	1.66	Passed
do	1.50	1.79	Passed
Superkill Endrin Emulsifiable Concentrate			
Endrin	19.50	21.68	Passed
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico Endrin Emulsifiable Concentrate			
Endrin	18.90	20.44	Passed
Woolfolk Chemical Works, Ltd.			
2% Endrin Cotton Dust			
Endrin	2.00	2.15	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ETHYLENE DICHLORIDE			
Taylor Chemical Company			
Superkill Ethylene Dichloride Emulsion			
Ethylene dichloride	85.00	82.50	Passed
ETHYLENE DICHLORIDE - CARBON TETRACHLORIDE			
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico Grain Fumigant			
Ethylene dichloride	70.00	69.87	Passed
Carbon tetrachloride	30.00	30.13	
Ethylene dichloride	70.00	70.53	Passed
Carbon tetrachloride	30.00	29.47	
Ethylene dichloride	70.00	70.20	Passed
Carbon tetrachloride	30.00	29.80	
Ethylene dichloride	70.00	72.18	Passed
Carbon tetrachloride	30.00	27.82	
West Disinfecting Company			
Westofume			
Ethylene dichloride	75.00	76.77	Passed
Carbon tetrachloride	25.00	23.23	
FERBAM			
California Spray-Chemical Corp.			
Ortho Nu-Leaf 15 Dust			
Ferric dimethyl dithiocarbamate	11.40	11.18	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 15% Fermate Dust			
Ferric dimethyl dithiocarbamate	11.40	10.97	Passed
do	11.40	11.80	Passed
do	11.40	11.51	Passed
Carolina Chemicals, Inc.			
Flight Brand 15% Fermate Dust			
Ferric dimethyl dithiocarbamate	11.40	11.52	Passed
Daly-Herring Company			
Dee Aitch 15% Fermate Dust			
Ferric dimethyl dithiocarbamate	11.40	11.73	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Davison Chemical Company			
Naco Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	10.97	Passed
E. I. du Pont de Nemours and Company			
Du Pont Fermate			
Ferric dimethyl dithiocarbamate	76.00	76.00	Passed
Farmers Cooperative Exchange, Inc.			
FCX Ferbam Dust No. 10			
Ferric dimethyl dithiocarbamate	11.40	11.59	Passed
do	11.40	11.38	Passed
do	11.40	11.59	Passed
do	11.40	11.39	Passed
do	11.40	11.59	Passed
do	11.40	11.29	Passed
do	11.40	11.31	Passed
do	11.40	11.10	Passed
Geigy Agricultural Chemicals			
Geigy Ferbam Dust for Tobacco Blue Mold			
Ferric dimethyl dithiocarbamate	11.40	11.40	Passed
Graham Chemical Company			
Red Star Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	10.97	Passed
do	11.40	10.97	Passed
do	11.40	10.97	Passed
do	11.40	11.18	Passed
do	11.40	11.18	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 15% "Fermate" Dust			
Ferric dimethyl dithiocarbamate	11.40	12.01	Passed
do	11.40	11.80	Passed
do	11.40	11.80	Passed
do	11.40	12.42	Passed
do	11.40	12.42	Passed
do	11.40	11.80	Passed
do	11.40	11.31	Passed
do	11.40	11.52	Passed
Miller Chemical and Fertilizer Corporation			
Blue Mold Dust			
Ferric dimethyl dithiocarbamate	10.50	10.89	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Olin Mathieson Chemical Corp.			
Mathieson Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	12.01	Passed
do	11.40	11.39	Passed
do	11.40	12.14	Passed
W. R. Peele Company, Inc.			
Pelco 15% Fermate Dust			
Ferric dimethyl dithiocarbamate	11.40	12.35	Passed
Quality Chemical Corp.			
Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	11.50	Passed
do	11.40	11.59	Passed
do	11.40	13.46	Passed
Southern Agricultural Chemicals, Inc.			
Royal Fermate Dust			
Ferric dimethyl dithiocarbamate	11.40	11.51	Passed
do	11.40	11.72	Passed
Taylor Chemical Company			
Superkill 11.4 Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	11.52	Passed
do	11.40	12.00	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	11.52	Passed
do	11.40	11.52	Passed
FERBAM - PARATHION			
Farmers Cooperative Exchange, Inc.			
FCX 11.4% Ferbam and 1% Parathion Dust			
Ferric dimethyl dithiocarbamate	11.40	11.10	Passed
Parathion	1.00	0.95	
Ferric dimethyl dithiocarbamate	11.40	12.02	Passed
Parathion	1.00	1.13	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
FUMARIN			
Sanitation Products Company			
Bait Tox			
Fumarin	0.025	0.025	Passed
do	0.025	0.033	Passed
do	0.025	0.039	Passed
do	0.025	0.036	Passed
Bait Tox for Rats (Containing Fumarin)			
Fumarin	0.50	0.47	Passed
FLUORINE COMPOUNDS			
SODIUM FLUOALUMINATE			
Aluminum Company of America			
Alcoa cryolite (Insecticide)			
Sodium fluoaluminate	90.00	88.89	Passed
SODIUM FLUORIDE			
Ralston Purina Company			
Purina Lice Powder			
Sodium fluoride	35.00	35.43	Passed
SODIUM FLUOSILICATE			
Shepard's Chemical Works			
Shepard's Roach Killer			
Sodium fluosilicate	60.00	73.14	Passed
FLUORINE - DDT			
Union Drug Company			
(Now: Walgreen Company)			
Roach Pizen			
Sodium fluoride	50.00	51.50	Passed
DDT	10.00	10.28	
HEPTACHLOR			
Maxwell Insecticide Company, Inc.			
Heptachlor Cotton Dust 2½-0-0			
Heptachlor	2.50	3.82	Passed
do	2.50	3.71	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Taylor Chemical Company			
Superkill 23% Heptachlor Emulsifiable Concentrate			
Heptachlor	23.41	23.49	Passed
HEPTACHLOR - DDT			
Olin Mathieson Chemical Corp.			
Mathieson Heptachlor 2.5-5-0 Cotton Dust			
Heptachlor	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.78	5.00	
Taylor Chemical Company			
Superkill 2 1/2-5 Heptachlor Cotton Dust			
Heptachlor	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.78	6.25	
Heptachlor	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.78	5.29	
Heptachlor	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.78	4.87	
MALATHION			
Allied Drug Products Company			
Allied Brand Fly Bait			
Malathion	3.00	4.05	Passed
do	3.00	4.18	Passed
Black Panther Company, Inc.			
Black Panther Fly Bait			
Malathion	2.00	2.44	Passed
California Spray-Chemical Corp.			
Ortho Malathion 4 Dust			
Malathion	4.00	4.03	Passed
do	4.00	3.99	Passed
Ortho Malathion 50 Spray			
Malathion	50.00	51.36	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 4% Malathion Dust			
Malathion	4.00	4.22	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
The d-Con Company, Inc.			
d-Con Fli-Con Ready Mix			
Malathion	2.00	2.44	Passed
Eagle Products Company			
Spra-kill Fly Crumbs			
Malathion	1.00	0.95	Passed
do	1.00	1.33	Passed
Florida Agricultural Supply Company			
Fasco Fly Flakes			
Malathion	1.00	1.26	Passed
do	1.00	1.14	Passed
do	1.00	1.33	Passed
do	1.00	1.44	Passed
do	1.00	1.39	Passed
Graham Chemical Company			
Red Star Fly Crystals			
Malathion	2.00	1.95	Passed
Mathieson Chemical Corp. (Now: Olin Mathieson Chemical Corp.)			
Mathieson 4% Malathion Dust			
Malathion	4.00	3.60	Deficient
do	4.00	3.50	Deficient
Miller Chemical and Fertilizer Corp.			
Hy-Tox Fly Bait			
Malathion	2.00	3.12	Passed
do	2.00	2.95	Passed
Hy-tox Insect Dust			
Malathion	4.00	4.14	Passed
Niagara Chemical Division Food Machinery and Chemical Corp.			
Malathion 25 (Wetttable)			
Malathion	25.00	29.56	Passed
Olin Mathieson Chemical Corp.			
Mathieson Malathion Emulsifiable Concentrate			
Malathion	55.00	55.80	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pesticide Distributing Company			
Bait Tox Fly Killer			
Malathion	2.00	0.58	Not Registered
Ralston Purina Company			
Purina Fly Bait			
Malathion	2.00	2.48	Passed
Rigo Manufacturing Company, Inc.			
Kill-Ko Fly Bait			
Malathion	2.00	1.66	Deficient
do	2.00	1.90	Passed
do	2.00	1.58	Deficient
Kill-Ko Malathion 5% Dust			
Malathion	5.00	5.00	Passed
Southern Agricultural Insecticides, Inc.			
SA 50 4% Malathion Dust			
Malathion	4.00	4.56	Passed
SA 50 Brand 5% Malathion Dust			
Malathion	5.00	4.48	Deficient
do	5.00	5.38	Passed
do	5.00	5.16	Passed
Swift and Company			
End-O-Pest Garden Spray with Malathion			
Malathion	50.00	53.10	Passed
Taylor Chemical Company			
Superkill 55% Malathion Emulsifiable Concentrate			
Malathion	55.00	59.37	Passed
MALATHION - SULFUR			
Davison Chemical Company			
Naco 4% Malathion and 50% Sulfur Dust			
Malathion	4.00	4.54	Passed
Sulfur	50.00	49.80	
Malathion	4.00	4.49	Passed
Sulfur	50.00	49.20	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Mike, Inc.			
101 Brand Malathion Dust with Sulfur			
Malathion	4.00	3.26	Deficient
Sulfur	18.00	18.91	
Malathion	4.00	3.18	Deficient
Sulfur	18.00	18.40	
Southern Agricultural Insecticides, Inc.			
SA 50 Brand 4% Malathion Dust			
Malathion	4.00	3.54	Deficient
Sulfur	25.00	26.43	
Malathion	4.00	4.09	Passed
Sulfur	25.00	26.38	
Malathion	4.00	4.57	Passed
Sulfur	25.00	24.51	
SA 50 Brand Pole Bean Dust			
Malathion	4.00	4.28	Passed
Sulfur	70.00	73.70	
MANEB			
Farmers Cooperative Exchange, Inc.			
FCX 1.4% Maneb Dust			
Manganese ethylene bisdithiocarbamate	1.40	1.50	Passed
do	1.40	1.70	Passed
do	1.40	1.79	Passed
Graham Chemical Company			
2% "Dithane" M-22 Dust			
Manganese ethylene bisdithiocarbamate	1.40	1.70	Passed
do	1.40	1.70	Passed
do	1.40	1.61	Passed
do	1.40	1.70	Passed
Olin Mathieson Chemical Corp			
Maneb 1.4% Dust			
Manganese ethylene bisdithiocarbamate	1.40	1.82	Passed
W. R. Peele Company, Inc.			
Pelco Manzate Maneb Tobacco Dust			
Manganese ethylene bisdithiocarbamate ...	1.40	1.70	Passed
Planters Chemical Corp.			
Planters Manzate Dust			
Manganese ethylene bisdithiocarbamate	1.40	1.79	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Insecticides, Inc.			
SA 50 Brand Manzate Dust			
Manganese ethylene bisdithiocarbamate	5.60	5.79	Passed
METHOXYCHLOR			
E. I. du Pont de Nemours & Company			
Du Pont Dairy Cattle Spray (Wettable powder)			
Methoxychlor	50.00	52.85	Passed
W. R. Peele Company, Inc.			
Pelco 5% Methoxychlor Dust			
Methoxychlor	5.00	5.21	Passed
Southern Agricultural Insecticides, Inc.			
SA 50 10% Marlate Dust			
Methoxychlor	5.00	5.53	Passed
do	5.00	5.29	Passed
do	5.00	5.82	Passed
METHOXYCHLOR - BHC - FERBAM - ZIRAM			
California Spray-Chemical Corp.			
Ortho Botano Deluxe Garden Dust			
Methoxychlor	5.00	Present	Passed
Gamma isomer of BHC	1.00		
Ferric dimethyl dithiocarbamate	3.00	2.88	
Zinc dimethyl dithiocarbamate	3.00	2.99	
Theoretical chlorine	2.27	2.22	
METHOXYCHLOR - BHC - SULFUR			
Ralston Purina Company			
Purina Insect Killer			
Methoxychlor	2.50		Passed
Gamma isomer of BHC from Lindane	0.50		
Sulfur	10.00	11.26	
Theoretical chlorine	1.13	1.32	
Methoxychlor	2.50		Passed
Gamma isomer of BHC from Lindane	0.50		
Sulfur	10.00		
Theoretical chlorine	1.13	2.47	
Methoxychlor	2.50		Passed
Gamma isomer of BHC from Lindane	0.50		
Sulfur	10.00	10.86	
Theoretical chlorine	1.13	1.30	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Purina Insect Killer (Continued)			
Methoxychlor	2.50		Passed
Gamma isomer of BHC from Lindane	0.50		
Sulfur	10.00	11.74	
Theoretical chlorine	1.13	1.60	

METHOXYCHLOR - COPPER

E. I. du Pont de Nemours & Company

Du Pont Tomato Dust

Methoxychlor	5.00	5.43	Passed
Copper	6.75	7.20	

METHOXYCHLOR - DICHLOROPHENE - HEXACHLOROPHENE - MALATHION

Pet Chemicals, Inc.

Holiday Flea-Stop

Methoxychlor	2.00	Present	Deficient
Dichlorophene	2.00		
Hexachlorophene	1.00		
Malathion	2.00	1.90	
Theoretical chlorine	1.67	0.96	
Methoxychlor	2.00	Neg.	Deficient
Dichlorophene	2.00	Neg.	Misbranded
Hexachlorophene	1.00	Neg.	
Malathion	2.00	3.09	
Theoretical chlorine	1.67		

METHOXYCHLOR - FERBAM - SULFUR

E. I. du Pont de Nemours & Company

Du Pont Fruit Tree Spray

Methoxychlor	12.50	13.54	Passed
Ferric dimethyl dithiocarbamate	15.20	16.40	
Sulfur	24.20	27.03	

METHOXYCHLOR - MALATHION

Southern Agricultural Insecticides, Inc.

SA 33 Dust

Methoxychlor	3.00	2.32	Deficient
Malathion	3.00	2.98	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
METHOXYCHLOR - METHYLENE BISCHLOROPHENOL - PYRETHRINS			
Pet Products, Inc.			
Flea-mitt			
Methoxychlor	5.00	Trace	Deficient
Methylene bischlorophenol	2.00		
Pyrethrins	0.4	Negative	
Theoretical chlorine	2.06	0.74	
METHOXYCHLOR - ORGANIC THIOCYANATES - PIPERONYL BUTOXIDE - PYRETHRINS			
California Spray-Chemical Corp.			
Ortho Fly Spray			
Methoxychlor	0.50	0.50	Passed
Thanite	0.30	Present	
Piperonyl butoxide	0.50	0.58	
Pyrethrins	0.05	0.06	
Virginia-Carolina Chemical Corp. (Now: Diamond Black Leaf Company)			
Black Leaf Fly Spray			
Methoxychlor	0.50	0.58	Passed
Thanite	1.405	Present	
Piperonyl butoxide	0.10	0.09	
Pyrethrins	0.012	0.020	
METHOXYCHLOR - PIPERONYL BUTOXIDE - PYRETHRINS			
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico Pressurized Cattle Spray			
Methoxychlor	3.00	2.95	Passed
Piperonyl butoxide	2.00	2.25	
Pyrethrins	0.20	0.21	
Unico Household Aerosol			
Methoxychlor	3.00	3.23	Passed
Piperonyl butoxide	0.60	0.66	
Pyrethrins	0.24	0.27	
Gulf Oil Corp.			
Quick Action Gulf Spray			
Methoxychlor	0.75	0.87	Passed
Piperonyl butoxide	0.12	0.14	
Pyrethrins	0.10	0.098	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
METHOXYCHLOR - PYRETHRINS			
Cook Chemical Company			
Real-kill Fly & Mosquito Killer			
Methoxychlor	0.50	0.55	Passed
Pyrethrins	0.05	0.052	
Methoxychlor	0.50	0.54	Passed
Pyrethrins	0.05	0.051	
Methoxychlor	0.50	0.54	Passed
Pyrethrins	0.05	0.052	
MH - 30			
Allied Chemical and Dye Corp.			
General Chemical Division			
Orchard Brand MH-30 Tobacco Sucker Inhibitor			
Diethanolamine salt of maleic hydrazide..	58.00	58.35	Passed
California Spray-Chemical Corp.			
Orho MH-30 Spray			
Diethanolamine salt of maleic hydrazide..	58.00	58.73	Passed
do	58.00	60.28	Passed
do	58.00	60.28	Passed
Maxwell Insecticide Company, Inc.			
Maxwell MH-30			
Diethanolamine salt of maleic hydrazide..	58.00	58.97	Passed
Naugatuck Chemical Company			
(Now: U. S. Rubber Company)			
MH-30			
Diethanolamine salt of maleic hydrazide..	58.00	58.24	Passed
Olin Mathieson Chemical Corp.			
MH-30			
Diethanolamine salt of maleic hydrazide..	58.00	59.58	Passed
do	58.00	58.93	Passed
W. R. Peele Company, Inc.			
Pelco MH-30			
Diethanolamine salt of maleic hydrazide..	58.00	60.40	Passed
PARATHION			
California Spray-Chemical Corp.			
Vapophos 1 Dust			
Parathion	1.00	1.24	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Cape Fear Chemicals, Inc.			
Tiger Brand 1% Parathion Dust			
Parathion	1.00	1.03	Passed
do	1.00	0.95	Passed
do	1.00	0.95	Passed
do	1.00	1.02	Passed
Maxwell Insecticide Company, Inc.			
Maxwell's 1% Parathion Dust			
Parathion	1.00	0.98	Passed
Niagara Chemical Division Food Machinery and Chemical Corp.			
Niagara Phos-kil Spray			
Parathion	15.00	15.28	Passed
W. R. Peele Company, Inc.			
Pelco 1% Parathion Dust			
Parathion	1.00	1.04	Passed
do	1.00	1.05	Passed
do	1.00	1.08	Passed
Planters Chemical Corp.			
Planters 1% Parathion Dust			
Parathion	1.00	1.05	Passed
Quality Chemical Corp.			
1% Parathion Dust			
Parathion	1.00	1.03	Passed
do	1.00	0.96	
Southern Agricultural Insecticides, Inc.			
SA 50 2% Parathion Dust			
Parathion	2.00	2.46	Passed
do	2.00	2.58	Passed
Taylor Chemical Company			
Superkill 1% Parathion Dust			
Parathion	1.00	1.52	Passed
do	1.00	1.07	Passed
Superkill 15% Parathion (Wettable)			
Parathion	15.00	16.27	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
PARATHION - SULFUR			
California Spray-Chemical Corp.			
Vapophos-S 3.75-70 Wetttable			
Parathion	3.75	3.95	Passed
Sulfur	70.00	69.25	
Southern Agricultural Insecticides, Inc.			
SA 50 Brand 2% Parathion with Sulfur			
Parathion	2.00	2.33	Passed
Sulfur	25.00	25.25	
Taylor Chemical Company			
Superkill Peach Dust			
Parathion	1.50	1.83	Passed
Sulfur	80.00	81.90	
Superkill Peach Spray No. 2			
Parathion	3.70	4.18	Passed
Sulfur	75.00	78.95	
PHENOLS - BHC - NEUTRAL OILS			
Carbola Chemical Company, Inc.			
Carbola Disinfecting White Paint			
Phenols	1.60	1.50	Passed
Gamma isomer of BHC	0.335	0.400	
Neutral oils	1.40	2.22	
Phenols	1.60	1.53	Passed
Gamma isomer of BHC	0.335	0.376	
Neutral oils	1.40	1.34	
Phenols	1.60	1.63	Passed
Gamma isomer of BHC	0.335	0.430	
Neutral oils	1.40	1.49	
Phenols	1.60	1.30	Deficient
Gamma isomer of BHC	0.335	0.320	
Neutral oils	1.40	2.32	
Phenols	1.60	1.02	Deficient
Gamma isomer of BHC	0.335	0.376	
Neutral oils	1.40	1.89	
Phenols	1.60	1.12	Deficient
Gamma isomer of BHC	0.335	0.376	
Neutral oils	1.40	1.76	
Phenols	1.60	1.32	Deficient
Gamma isomer of BHC	0.335	0.404	
Neutral oils	1.40	1.31	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Carbola Disinfecting White Paint (Continued)			
Phenols	1.60	1.22	Deficient
Gamma isomer of BHC	0.335	0.480	
Neutral oils	1.40	2.43	
Phenols	1.60	1.26	Deficient
Gamma isomer of BHC	0.335	0.450	
Neutral oils	1.40	1.58	
Phenols	1.60	0.92	Deficient
Gamma isomer of BHC	0.335	0.410	
Neutral oils	1.40	1.04	
Phenols	1.60	1.32	Deficient
Gamma isomer of BHC	0.335	0.460	
Neutral oils	1.40	1.94	
PINE OIL			
Carroll Chemical Company			
Pine Oil Disinfectant			
Pine oil	80.00	80.53	Passed
Coastal Chemical Corp.			
Pineaire Pine Oil Disinfectant			
Pine oil	80.00	79.20	Passed
PINE OIL - ORGANIC THIOCYANATES			
William Cooper and Nephews, Inc.			
Pulvex Flea Soap			
Pine oil	4.00	Present	Passed
Lethane 384 Special	2.00	2.09	
PIVAL			
Dr. Hess & Clark, Inc.			
Dr. Hess Rat & Mouse Killer (Water soluble)			
Sodium salt of 2-pivalyl-1,3 indandione....	0.14	0.14	Passed
do	0.14	0.13	Passed
Ralston Purina Company			
Purina Rat Control			
Sodium salt of 2-pivalyl-1,3 indandione....	0.14	0.14	Passed
do	0.14	0.14	Passed
Tobacco By-Products & Chemical Corp. (Now: Diamond Black Leaf Company)			
Black Leaf Mouse Killer Bait			
2-pivalyl-1,3-indandione	0.025	0.020	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
PYRETHRINS			
Dr. L. D. LeGear Medicine Company			
Dr. LeGear's Insect Powder			
Pyrethrins	0.50	0.51	Passed
do	0.50	0.54	Passed
McCormick and Company, Inc.			
Bee Brand Insect Powder			
Pyrethrins	0.75	0.79	Passed
do	0.75	0.82	Passed
do	0.75	0.75	Passed
PYRETHRINS - ALLETHRIN			
Boyle-Midway, Inc.			
Dwin			
Pyrethrins	0.40	Present	Passed
Allethrins	0.10	Present	
PYRETHRINS - COPPER - PIPERONYL CYCLONENE			
Planters Chemical Corp.			
Planters Cuke and Melon Dust			
Pyrethrins	0.400	0.038	Passed
Copper as metallic	5.00	4.80	
Piperonyl cyclonene	0.50	Present	
PYRETHRINS - DICHLOROPHENE - PIPERONYL BUTOXIDE			
Nusco Products, Inc.			
4-T Pet Deodorant			
Pyrethrins	0.067	0.073	Deficient
Dichlorophene	5.000	1.070	
Piperonyl butoxide	0.667	Present	
PYRETHRINS - DIELDRIN			
Cook Chemical Company			
Push Button Real Kill Bug Killer			
Pyrethrins	0.046	0.050	Passed
Dieldrin	0.500	0.510	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**PYRETHRINS - METHYL NAPHTHALENE -
PERFUME - SESAME**

Pioneer Manufacturing Company

Actrite De-Moth

Pyrethrins	0.049	0.058	Passed
Methyl naphthalene	1.889	Present	
Perfume	1.000	Present	
Sesame	0.185	Present	

PYRETHRINS - PERFUME - SESAME

The Dill Company

Dill Spray

Pyrethrins	0.05	0.056	Passed
Perfume	0.25	Present	
Sesame	0.19	Present	
Pyrethrins	0.05	0.06	Passed
Perfume	0.25	Present	
Sesame	0.19	Present	

PYRETHRINS - PIPERONYL BUTOXIDE

S. C. Johnson and Sons, Inc.

Raid Insect Spray

Pyrethrins	0.075	0.080	Passed
Piperonyl butoxide	0.150	0.160	

**U. S. Industrial Chemicals, Inc.
(Now: Fairfield Chemical Division)**

Pyrenone Grain Protectant

Pyrethrins	0.05	0.049	Passed
Piperonyl butoxide	0.80	0.78	

**PYRETHRINS - PIPERONYL BUTOXIDE -
PIPERONYL CYCLONENE**

Hinton & Company, Inc.

Mit E Kill Insect Control

Pyrethrins	0.375	0.340	Passed
Piperonyl butoxide	1.890	1.800	
Piperonyl cyclonene	0.335	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**PYRETHRINS - PIPERONYL BUTOXIDE -
TERPENE POLYCHLORINATES**

Colgate-Palmolive Company

Kan-kil Bug Killer

Pyrethrins	0.20	0.21	Passed
Piperonyl butoxide	0.50	0.59	
Terpene polychlorinates	2.00	Present	
Pyrethrins	0.20	0.25	Passed
Piperonyl butoxide	0.50	0.60	
Terpene polychlorinates	2.00	Present	
Theoretical chlorine		1.49	

ROTENONE

Acme Quality Paints, Inc.

Acme Garden Guard

Rotenone	1.00	1.09	Passed
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California Spray-Chemical Corp.

Botano R1 Dust 1% Rotenone

Rotenone	1.00	0.77	Deficient
do	1.00	1.06	Passed
do	1.00	1.29	Passed
do	1.00	1.34	Passed
do	1.00	1.25	Passed

Cape Fear Chemicals, Inc.

Tiger Brand 1% Rotenone Dust

Rotenone	1.00	1.12	Passed
do	1.00	0.79	Passed
do	1.00	0.86	Passed

Central Chemical Corp.

Ro Dust "100" 1% Rotenone

Rotenone	1.00	0.86	Passed
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Chemical Formulators, Inc.

Chem Form Brand .75% Rotenone

Rotenone	0.75	0.65	Not Registered
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William Cooper and Nephews, Inc.

Pulvex Dry Shampoo

Rotenone	0.1	Present	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Daly-Herring Company			
Dee Aitch 1.00% Rotenone Dust			
Rotenone	1.00	0.92	Passed
do	1.00	1.04	Passed
Farmers Cooperative Exchange, Inc.			
FCX Rotox 100 Dust			
Rotenone	1.00	1.12	Passed
do	1.00	1.08	Passed
do	1.00	1.11	Passed
do	1.00	1.11	Passed
do	1.00	1.02	Passed
do	1.00	1.06	Passed
do	1.00	1.08	Passed
do	1.00	1.03	Passed
do	1.00	1.16	Passed
do	1.00	1.12	Passed
do	1.00	1.12	Passed
do	1.00	1.12	Passed
J. M. Harris and Company, Inc.			
Copper Dragon			
Rotenone	0.75	.80	Passed
Lebanon Chemical Corp.			
RO-Spray "400" 4% Rotenone Wettable Powder			
Rotenone	4.00	3.23	Passed
do	4.00	3.22	Passed
do	4.00	3.50	Passed
Mathieson Chemical Corp. (Now: Olin Mathieson Chemical Corp.)			
Mathieson Rotenone 1% Dust			
Rotenone	1.00	1.17	Passed
McCormick and Company, Inc.			
Bee Brand Ant Killer			
Rotenone	5.00	4.94	Passed
Miller Chemical and Fertilizer Corp.			
V-75 (A Dust Containing 0.75% Rotenone)			
Rotenone	0.75	0.86	Passed
do	0.75	0.75	Passed
do	0.75	0.69	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
V-75 (A Dust Containing 0.75% Rotenone) (Continued)			
Rotenone	0.75	0.70	Passed
do	0.75	0.65	Passed
Miller Dust (Containing 1% Rotenone)			
Rotenone	1.00	1.03	Passed
Naco Fertilizer Company (Now: Davison Chemical Company)			
Naco 1% Rotenone Dust			
Rotenone	1.00	0.98	Passed
Sears, Roebuck and Company			
Cross Country Insect Dust (Containing Rotenone)			
Rotenone	0.75	0.73	Passed
do	0.75	0.76	Passed
Southern Agricultural Insecticides, Inc.			
SA 50 Cattle Grub and Lice Powder			
Rotenone	1.50	1.36	Passed
Whitmire Research Laboratories, Inc.			
Whitmire's Ticks-off Insect Repellent Bomb			
Rotenone	0.108	Present	Passed
Woolfolk Chemical Works, Ltd.			
Security Brank 1% Rotenone Dust			
Rotenone	1.00	0.90	Passed
ROTENONE - COPPER - DDT - SULFUR			
Southern Agricultural Insecticides, Inc.			
SA 50 Brand Pole Bean Dust			
Rotenone	1.00	0.84	Deficient
Copper as metallic	3.00	2.98	
DDT	3.00	3.22	
Sulfur	60.00	55.66	
ROTENONE - COPPER - ORGANIC THIOCYANATES			
Carbola Chemical Company, Inc.			
CCC Copper Rote			
Rotenone	0.40	0.18	Deficient
Copper as metallic	6.00	6.24	
Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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CCC Copper Rote (Continued)

Rotenone	0.40	0.32	Passed
Copper as metallic	6.00	5.82	
Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	

Rigo Manufacturing Company, Inc.

Kill-Ko 3 in 1 Garden Dust

Rotenone	0.75	0.58	Passed
Copper as metallic	4.00	6.69	
Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.37	Present	
Rotenone	0.75	0.68	Passed
Copper as metallic	4.00	6.69	
Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.37	Present	

ROTENONE - DDT - FERBAM - SULFUR - ZIRAM

United Cooperatives, Inc.

(Now: Farmers Cooperative Exchange, Inc.)

Unico Floral Spray Powder

Rotenone	1.00	Present	Deficient
DDT	5.00	4.49	
Ferric dimethyl dithiocarbamate	3.80	3.79	
Sulfur	30.00	26.02	
Zinc dimethyl dithiocarbamate	3.50	4.30	

ROTENONE - DDT - SULFUR

Graham Chemical Company

Red Star Rotenone Dust

Rotenone	1.00	0.97	Passed
DDT	3.00	3.22	
Sulfur	15.00	20.33	
Rotenone	1.00	0.80	Passed
DDT	3.00	3.37	
Sulfur	15.00	18.64	
Rotenone	1.00	0.96	Passed
DDT	3.00	2.93	
Sulfur	15.00	17.72	

ROTENONE - DICHLOROPHENE -
HEXACHLOROPHENE

The Hilo Company

Hilo Flea and Fungus Powder

Rotenone	1.20	1.18	Passed
Dichlorophene	0.50		
Hexachlorophene	0.50		
Theoretical chlorine	0.39	0.43	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**ROTENONE - FERBAM - METHOXYCHLOR -
ZIRAM**

Acme Quality Paints, Inc.

Acme All Round Dust

Rotenone	0.75	Present	Passed
Ferric dimethyl dithiocarbamate	4.00	3.95	
Methoxychlor	5.00	4.86	
Zinc dimethyl dithiocarbamate	4.00	4.06	
Rotenone	0.75	Present	Passed
Ferric dimethyl dithiocarbamate	4.00	4.23	
Methoxychlor	5.00	4.86	
Zinc dimethyl dithiocarbamate	4.00	4.67	

**ROTENONE - FERBAM - NICOTINE -
PYRETHRINS**

Virginia-Carolina Chemical Corp.

(Now: Diamond Black Leaf Company)

Black Leaf Multi-Purpose Garden Dust

Rotenone	1.00	Present	Deficient
Ferric dimethyl dithiocarbamate	7.60	6.69	
Nicotine	1.00	0.98	
Pyrethrins	0.10	0.10	

**ROTENONE - FLUORINE - ORGANIC
THIOCYANATES - SULFUR**

Carbola Chemical Company, Inc.

CCC Louse Killer

Rotenone	0.40	0.44	Deficient
Sodium fluosilicate	10.00	7.01	
Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	14.43	
Rotenone	0.40	0.30	Deficient
Sodium fluosilicate	10.00	7.99	
Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	14.95	
Rotenone	0.40	0.37	Deficient
Sodium fluosilicate	10.00	6.72	
Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	14.73	
Rotenone	0.40	0.33	Deficient
Sodium fluosilicate	10.00	6.86	
Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	15.93	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
CCC Louse Killer (Continued)			
Rotenone	0.40	Present	Deficient
Sodium fluosilicate	10.00	7.68	
Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	15.71	
ROTENONE - METHOXYCHLOR			
Pratt Food Company			
Pratt's Lice Killer			
Rotenone	1.00	0.80	Passed
Methoxychlor	0.50	0.65	
ROTENONE - NAPHTHALENE - PYRETHRINS			
Carolina Chemicals, Inc.			
Py-Ro Cattle Grub and Louse Powder			
Rotenone	1.50	1.38	Passed
Napthalene	7.00	6.95	
Pyrethrins	0.09	0.085	
ROTENONE - ORGANIC THIOCYANATES - SULFUR			
Black Panther Company, Inc.			
Black Panther Dust			
Rotenone	0.75	0.72	Deficient
Beta beta dithiocyno diethyl ether	0.20	Present	
Sulfur	10.00	8.76	
Rotenone	0.75	1.04	Passed
Beta beta dithiocyno diethyl ether	0.20	Present	
Sulfur	10.00	10.95	
Rotenone	0.75	0.84	Passed
Beta beta dithiocyno diethyl ether	0.20	Present	
Sulfur	10.00	9.73	
Rotenone	0.75	0.77	Passed
Beta beta dithiocyno diethyl ether	0.20	Present	
Sulfur	10.00	10.68	
Rotenone	0.75	0.91	Passed
Beta beta dithiocyno diethyl ether	0.20	Present	
Sulfur	10.00	10.41	
Rotenone	0.75	0.55	Passed
Beta beta dithiocyno diethyl ether	0.20	Present	
Sulfur	10.00	14.66	
Rotenone	0.75	0.69	Passed
Beta beta dithiocyno diethyl ether	0.20	Present	
Sulfur	10.00	9.58	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Parrott Chemical Company**Lucky Strike Kill Guard Formula #700**

Rotenone	0.75	0.61	Passed
Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	2.00	Present	
Sulfur	15.00	15.91	

ROTENONE - PINE OIL**The Hilo Company****Hilo Dip**

Rotenone	1.00	Present	Passed
Pine oil	71.00	73.85	

**ROTENONE - PIPERONYL CYCLONENE -
PYRETHRINS****Boyle-Midway, Inc.****Black Flag Flea, Tick, and Louse Powder**

Rotenone	0.50	0.50	Passed
Piperonyl cyclonene	1.00	Present	
Pyrethrins	0.10	0.10	
Rotenone	0.50	0.48	Passed
Piperonyl cyclonene	1.00	Present	
Pyrethrins	0.10	0.09	

**ROTENONE - PIPERONYL CYCLONENE -
PYRETHRINS - SULFUR****Planters Chemical Corp.****Planters P.D.Q. Bean and Garden Dust**

Rotenone	0.40	0.36	Deficient
Piperonyl cyclonene	0.37	Present	
Pyrethrins	0.03	0.028	
Sulfur	10.00	9.35	
Rotenone	0.40	0.44	Passed
Piperonyl cyclonene	0.37	Present	
Pyrethrins	0.03	0.033	
Sulfur	10.00	10.30	
Rotenone	0.40	0.29	Passed
Piperonyl cyclonene	0.37	Present	
Pyrethrins	0.03	0.037	
Sulfur	10.00	9.80	

ROTENONE - PYRETHRINS - SULFUR**Carolina Chemicals, Inc.****Flight Brand 1% Rotenone**

Rotenone	1.00	0.91	Passed
Pyrethrins	0.03	0.035	
Sulfur	15.00	16.60	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Chemicals, Inc.			
Royal Brand Mexican Bean Beetle Control			
(Rotenone and Pyrethrins)			
Rotenone	0.50	0.56	Passed
Pyrethrins	0.035	Present	
Sulfur	18.00	18.40	
Southern Agricultural Insecticides, Inc.			
SA 50 for Mexican Bean Beetle Control			
Rotenone	0.50	0.45	Passed
Pyrethrins	0.04	0.041	
Sulfur	18.00	18.76	
Rotenone	0.50	0.58	Passed
Pyrethrins	0.04	0.052	
Sulfur	18.00	18.80	
SA 50 Brand For Mexican Bean Beetle Control			
Rotenone	0.50	0.37	Deficient
Pyrethrins	0.08	Negative	
Sulfur	18.00	18.85	
Rotenone	0.50	0.37	Deficient
Pyrethrins	0.08	Negative	
Sulfur	18.00	16.90	
Rotenone	0.50	0.51	Passed
Pyrethrins	0.08	0.09	
Sulfur	18.00	18.69	
Rotenone	0.50	0.45	Passed
Pyrethrins	0.08	0.083	
Sulfur	18.00	17.82	
Rotenone	0.50	0.50	Passed
Pyrethrins	0.08	0.09	
Sulfur	18.00	19.13	
Rotenone	0.50	0.49	Passed
Pyrethrins	0.08	0.084	
Sulfur	18.00	18.31	
Rotenone	0.50	0.55	Passed
Pyrethrins	0.08	0.085	
Sulfur	18.00	19.12	
SA 400 Mexican Bean Beetle Control			
Rotenone	0.50	0.44	Passed
Pyrethrins	0.10	0.11	
Sulfur	18.00	19.23	
Rotenone	0.50	0.39	Passed
Pyrethrins	0.10	0.11	
Sulfur	18.00	19.60	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SA 100 Mexican Bean Beetle Control			
Rotenone	1.00	0.84	Deficient
Pyrethrins	0.08	0.083	
Sulfur	18.00	16.81	
Rotenone	1.00	0.98	Passed
Pyrethrins	0.08	0.078	
Sulfur	18.00	18.79	
Rotenone	1.00	1.01	Passed
Pyrethrins	0.08	0.085	
Sulfur	18.00	19.45	
Rotenone	1.00	0.92	Passed
Pyrethrins	0.08	0.09	
Sulfur	18.00	18.46	
Rotenone	1.00	0.85	Passed
Pyrethrins	0.08	0.84	
Sulfur	18.00	18.95	
Rotenone	1.00	0.89	Passed
Pyrethrins	0.08	0.084	
Sulfur	18.00	18.47	

Spratt's Patent, Ltd.**Spratt's Flea and Insect Powder**

Rotenone	0.25	0.11	Deficient
Pyrethrins	0.80	0.77	
Sulfur	25.00	20.75	

ROTENONE - PYRETHRINS - SULFUR - ZINEB**Swift and Company****Endo pest 3-way Garden Dust**

Rotenone	1.00	0.88	Passed
Pyrethrins	0.10	0.14	
Sulfur	10.00	10.54	
Zinc ethylene bisdithiocarbamate	3.25	4.35	Deficient
Rotenone	1.00	0.75	
Pyrethrins	0.10	0.10	
Sulfur	10.00	10.07	Passed
Zinc ethylene bisdithiocarbamate	3.25	4.29	
Rotenone	1.00	1.08	
Pyrethrins	0.10	0.08	Passed
Sulfur	10.00	11.25	
Zinc ethylene bisdithiocarbamate	3.25	4.12	

ROTENONE - SULFUR**Farmers Cooperative Exchange, Inc.****FCX Rotox No. 100 plus Sulfur**

Rotenone	1.00	1.00	Not Registered
Sulfur	40.00	45.50	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
FCX Rotox No. 100 plus Sulfur (Continued)			
Rotenone	1.00	0.98	Not Registered
Sulfur	40.00	42.52	
Special FCX Rotox 160 plus Sulfur			
Rotenone	1.60	1.68	Passed
Sulfur	45.00	46.42	
Rotenone	1.60	1.62	Passed
Sulfur	45.00	46.90	
Graham Chemical Company			
Graham's Red Star 1% Rotenone Dust			
Rotenone	1.00	1.00	Passed
Sulfur	15.00	17.87	
Rotenone	1.00	0.88	Passed
Sulfur	15.00	19.34	
Rotenone	1.00	0.86	Passed
Sulfur	15.00	15.81	
Rotenone	1.00	0.95	Passed
Sulfur	15.00	17.80	
Rotenone	1.00	1.05	Passed
Sulfur	15.00	17.34	
Rotenone	1.00	0.86	Passed
Sulfur	15.00	17.10	
Rotenone	1.00	0.92	Passed
Sulfur	15.00	17.21	
Rotenone	1.00	0.89	Passed
Sulfur	15.00	17.81	
Rotenone	1.00	0.96	Passed
Sulfur	15.00	17.70	
Rotenone	1.00	1.06	Passed
Sulfur	15.00	17.24	
Rotenone	1.00	1.00	Passed
Sulfur	15.00	19.38	
Rotenone	1.00	1.01	Passed
Sulfur	15.00	19.58	
J. M. Harris and Company, Inc.			
Blue Dragon Dust			
Rotenone	0.75	0.92	Passed
Sulfur	10.00	10.32	
Rotenone	0.75	0.84	Passed
Sulfur	10.00	10.60	
Rotenone	0.75	0.86	Passed
Sulfur	10.00	10.61	
Rotenone	0.75	0.67	Passed
Sulfur	10.00	10.68	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Blue Dragon Dust (Continued)

Rotenone	0.75	0.73	Passed
Sulfur	10.00	10.02	
Rotenone	0.75	0.85	Passed
Sulfur	10.00	10.00	
Rotenone	0.75	0.63	Passed
Sulfur	10.00	11.15	
Rotenone	0.75	0.61	Passed
Sulfur	10.00	10.37	
Rotenone	0.75	0.69	Passed
Sulfur	10.00	10.87	
Rotenone	0.75	0.66	Passed
Sulfur	10.00	10.05	
Rotenone	0.75	0.94	Passed
Sulfur	10.00	9.68	
Rotenone	0.75	0.78	Passed
Sulfur	10.00	10.18	
Rotenone	0.75	0.71	Passed
Sulfur	10.00	10.00	

Sam Houston Company

Rotenone 50-S

Rotenone	0.50	0.47	Passed
Sulfur	87.50	89.45	

Houston's Rotenone Sulfur Talc

Rotenone	0.75	0.56	Passed
Sulfur	10.00	10.85	
Rotenone	0.75	0.71	Passed
Sulfur	10.00	9.88	
Rotenone	0.75	0.72	Passed
Sulfur	10.00	10.00	

Sam Houston 100-S

Rotenone	1.00	0.82	Passed
Sulfur	75.00	82.10	

Maxwell Insecticide Company, Inc.

Maxwell 1% Rotenone Dust

Rotenone	1.00	0.88	Passed
Sulfur	15.00	15.44	
Rotenone	1.00	1.02	Passed
Sulfur	15.00	16.34	
Rotenone	1.00	0.81	Passed
Sulfur	15.00	15.71	
Rotenone	1.00	0.88	Passed
Sulfur	15.00	16.24	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell 1% Rotenone Dust (Continued)			
Rotenone	1.00	1.14	Passed
Sulfur	15.00	15.97	
Rotenone	1.00	1.09	Passed
Sulfur	15.00	15.53	
Rotenone	1.00	1.07	Passed
Sulfur	15.00	15.40	
Maxwell Cattle Grub and Louse Powder			
Rotenone	1.50	1.68	Passed
Sulfur	65.00	67.10	
Rotenone	1.50	1.38	Passed
Sulfur	65.00	65.50	
W. R. Peele Company, Inc.			
Pelco 1% Rotenone Dust			
Rotenone	1.00	1.02	Misbranded
Sulfur	15.00	75.25	
Seacoast Laboratories, Inc.			
Twin Light 1% Dustall Rotenone			
Rotenone	1.00	1.12	Passed
Sulfur	3.00	3.83	
Rotenone	1.00	0.97	Passed
Sulfur	3.00	3.04	
Rotenone	1.00	1.20	Passed
Sulfur	3.00	4.14	
Rotenone	1.00	1.18	Passed
Sulfur	3.00	2.87	
Rotenone	1.00	0.96	Passed
Sulfur	3.00	3.60	
Rotenone	1.00	1.01	Passed
Sulfur	3.00	3.91	
Rotenone	1.00	0.96	Passed
Sulfur	3.00	4.01	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand No. 75 Mexican Bean Beetle Dust			
Rotenone	0.75	0.75	Passed
Sulfur	18.00	18.75	
Wyatt-Quarles Seed Company			
Wyatt's 1% Rotenone Dust			
Rotenone	1.00	1.15	Passed
Sulfur	15.00	15.55	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Job P. Wyatt and Sons Company (Now: Wyatt-Quarles Seed Company)			
Wyatt's 1% Rotenone Dust			
Rotenone	1.00	1.10	Passed
Sulfur	15.00	15.38	
Rotenone	1.00	0.88	Passed
Sulfur	15.00	15.55	
ROTENONE - SULFUR - ZIRAM			
Swift and Company			
End-O-Pest 3-Way Garden Defense			
Rotenone	1.25	1.07	Passed
Sulfur	15.00	15.94	
Zinc dimethyl dithiocarbamate	4.00	5.38	
Rotenone	1.25	1.18	Passed
Sulfur	15.00	16.14	
Zinc dimethyl dithiocarbamate	4.00	5.47	
SABADILLA			
Carolina Chemicals, Inc.			
Sabadilla Dust			
Sabadilla alkaloids	0.80	0.98	Passed
Daly-Herring Company			
Dee Aitch 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.83	Passed
do	0.80	0.90	Passed
Farmers Cooperative Exchange, Inc.			
FCX Saba-Dil #10			
Sabadilla alkaloids	0.40	0.51	Passed
do	0.40	0.40	Passed
FCX Saba-Dil #20			
Sabadilla alkaloids	0.80	0.80	Passed
Graham Chemical Company			
Graham's Red Star 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.69	Deficient
do	0.80	0.66	Deficient
do	0.80	0.95	Passed
do	0.80	0.77	Passed
do	0.80	0.86	Passed
do	0.80	1.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
J. M. Harris & Company, Inc.			
Dragon Sabadilla Dust			
Sabadilla alkaloids	0.80	1.04	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	1.05	Passed
do	0.80	0.87	Passed
do	0.80	0.79	Passed
do	0.80	0.82	Passed
do	0.80	0.81	Passed
Pearson & Company			
Red Devil Dust			
Sabadilla alkaloids	0.80	0.90	Passed
W. R. Peele Company, Inc.			
Pelco 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.93	Passed
do	0.80	0.76	Passed
Quality Chemical Corp.			
Sabadilla 20% Dust			
Sabadilla alkaloids	0.88	0.89	Passed
do	0.88	0.95	Passed
Seacoast Laboratories, Inc.			
Twin Light Sabadust 20%			
Sabadilla alkaloids	0.80	1.09	Passed
do	0.80	1.10	Passed
Standard Fertilizer Company (Now: Olin Mathieson Chemical Corp.)			
Sabadilla 20% Dust			
Sabadilla alkaloids	0.88	0.88	Passed
Woolfolk Chemical Works, Ltd.			
Sabane Dust			
Sabadilla alkaloids	0.80	0.80	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Job P. Wyatt and Sons Company
(Now: Wyatt-Quarles Seed Company)

Wyatt's 20% Sabadilla Dust

Sabadilla alkaloids	0.80	0.86	Passed
do	0.80	0.91	Passed
do	0.80	0.99	Passed
do	0.80	0.93	Passed

Wyatt-Quarles Seed Company

Wyatt-Quarles 20% Sabadilla Dust

Sabadilla alkaloids	0.80	0.81	Passed
do	0.80	0.86	Passed
do	0.80	0.83	Passed
do	0.80	0.85	Passed

TOXAPHENE

Acme Fertilizer Company

Acme 20% Toxaphene

Toxaphene	20.00	19.86	Passed
do	20.00	21.43	Passed

Apex Chemical Company

Apex Toxaphene "20" Dust

Toxaphene	20.00	18.86	Deficient
do	20.00	20.57	Passed
do	20.00	19.72	Passed

California Spray-Chemical Corp.

Alltox 20 Dust

Toxaphene	20.00	20.29	Passed
do	20.00	20.00	Passed
do	20.00	20.57	Passed
do	20.00	20.72	Passed
do	20.00	20.72	Passed
do	20.00	21.29	Passed
do	20.00	20.57	Passed
do	20.00	19.86	Passed
do	20.00	19.57	Passed

Alltox 6 Spray

Toxaphene	58.50	59.01	Passed
do	58.50	60.29	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Cape Fear Chemicals, Inc.			
Tiger Brand 10% Toxaphene Dust			
Toxaphene	10.00	11.93	Passed
do	10.00	10.43	Passed
do	10.00	10.29	Passed
Tiger Brand 20% Toxaphene Cotton Dust			
Toxaphene	20.00	19.57	Passed
do	20.00	19.43	Passed
do	20.00	20.29	Passed
do	20.00	19.14	Passed
do	20.00	19.00	Passed
do	20.00	20.29	Passed
do	20.00	19.72	Passed
do	20.00	19.14	Passed
do	20.00	18.86	Deficient
do	20.00	18.57	Deficient
do	20.00	20.14	Passed
do	20.00	5.16	Deficient*
do	20.00	20.57	Passed
do	20.00	19.57	Passed
Carolina Chemicals, Inc.			
Flight Brand Toxaphene Dust 20-0			
Toxaphene	20.00	20.43	Passed
Carter Insecticide & Chemical Company			
20% Toxaphene Cotton Dust			
Toxaphene	20.00	20.14	Passed
do	20.00	19.72	Passed
Carolina Toxaphene Emulsion Concentrate			
Toxaphene	60.00	60.85	Passed
Daly-Herring Company			
Dee Aitch 20% Toxaphene Cotton Dust			
Toxaphene	20.00	20.43	Passed
Davison Chemical Company			
Naco 20% Toxaphene Dust			
Toxaphene	20.00	20.00	Passed

* DDT Present

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Farmers Cooperative Exchange, Inc.			
FCX 20-0 Toxaphene Dust			
Toxaphene	20.00	19.72	Passed
do	20.00	20.00	Passed
do	20.00	19.57	Passed
do	20.00	19.72	Passed
do	20.00	19.72	Passed
do	20.00	19.86	Passed
do	20.00	19.86	Passed
do	20.00	19.72	Passed
do	20.00	19.72	Passed
do	20.00	19.72	Passed
do	20.00	19.72	Passed
do	20.00	20.00	Passed
do	20.00	19.86	Passed
do	20.00	20.43	Passed
do	20.00	20.14	Passed
do	20.00	19.57	Passed
Howerton Gowen Company, Inc.			
Gowen's 20% Toxaphene Dust			
Toxaphene	20.00	19.72	Passed
do	20.00	20.86	Passed
Johnson Cotton Company, Inc.			
Southern Quality 20% Toxaphene Dust			
Toxaphene	20.00	19.72	Passed
Kirby Chemical Company, Inc.			
Red Kay 20% Toxaphene Cotton Dust			
Toxaphene	20.00	19.72	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 10% Toxaphene Dust			
Toxaphene	10.00	10.22	Passed
do	10.00	10.29	Passed
do	10.00	9.86	Passed
do	10.00	10.64	Passed
Maxwell 20% Toxaphene Dust			
Toxaphene	20.00	19.72	Passed
do	20.00	19.43	Passed
do	20.00	20.00	Passed
do	20.00	19.57	Passed
do	20.00	20.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell 20% Toxaphene Dust (Continued)			
Toxaphene	20.00	20.72	Passed
do	20.00	20.14	Passed
do	20.00	19.57	Passed
do	20.00	19.43	Passed
do	20.00	21.00	Passed
do	20.00	20.29	Passed
do	20.00	19.43	Passed
do	20.00	20.00	Passed
do	20.00	19.72	Passed
do	20.00	20.29	Passed
do	20.00	20.29	Passed
do	20.00	19.86	Passed
do	20.00	20.57	Passed
do	20.00	20.00	Passed
do	20.00	20.29	Passed
do	20.00	20.57	Passed
Naco Fertilizer Company (Now: Davison Chemical Company)			
Naco 10% Toxaphene Dust			
Toxaphene	10.00	10.36	Passed
Naco Toxaphene Cotton Dust 20-0			
Toxaphene	20.00	19.00	Passed
Niagara Chemical Division Food Machinery and Chemical Corp.			
Toxakil 20 Dust			
Toxaphene	20.00	19.72	Passed
Olin Mathieson Chemical Corp.			
Mathieson Toxaphene "20" Dust			
Toxaphene	20.00	18.15	Deficient
do	20.00	17.71	Deficient
do	20.00	20.14	Passed
do	20.00	20.29	Passed
do	20.00	20.29	Passed
do	20.00	19.43	Passed
do	20.00	20.57	Passed
do	20.00	19.86	Passed
do	20.00	20.29	Passed
do	20.00	19.43	Passed
do	20.00	20.00	Passed
do	20.00	19.84	Passed
do	20.00	20.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Mathieson Toxaphene "20" Dust (Continued)

Toxaphene	20.00	20.14	Passed
do	20.00	19.57	Passed
do	20.00	19.00	Passed
do	20.00	19.25	Passed
do	20.00	20.29	Passed
do	20.00	20.00	Passed
do	20.00	20.71	Passed
do	20.00	20.29	Passed
do	20.00	20.14	Passed
do	20.00	20.29	Passed

Toxaphene Emulsifiable Liquid 6 pounds

Toxaphene	60.50	58.98	Passed
do	60.50	61.22	Passed
do	60.50	58.89	Passed

W. R. Peele Company, Inc.

Pelco 10% Toxaphene Dust

Toxaphene	10.00	9.72	Passed
do	10.00	9.50	Passed

Pelco 20% Toxaphene Dust

Toxaphene	20.00	18.00	Deficient
do	20.00	18.29	Deficient
do	20.00	20.00	Passed
do	20.00	20.29	Passed
do	20.00	19.72	Passed
do	20.00	19.57	Passed
do	20.00	19.78	Passed
do	20.00	19.43	Passed
do	20.00	19.43	Passed
do	20.00	20.29	Passed
do	20.00	20.29	Passed
do	20.00	20.14	Passed
do	20.00	20.57	Passed
do	20.00	20.00	Passed
do	20.00	20.00	Passed
do	20.00	19.43	Passed
do	20.00	19.14	Passed
do	20.00	20.29	Passed
do	20.00	20.72	Passed
do	20.00	20.00	Passed
do	20.00	21.00	Passed
do	20.00	20.14	Passed
do	20.00	19.72	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pelco 20% Toxaphene Dust (Continued)			
Toxaphene	20.00	20.14	Passed
do	20.00	19.86	Passed
do	20.00	20.43	Passed
do	20.00	19.57	Passed
do	20.00	20.43	Passed
do	20.00	21.15	Passed
do	20.00	20.00	Passed
do	20.00	20.57	Passed
do	20.00	20.43	Passed
do	20.00	20.14	Passed
Pennsylvania Salt Manufacturing Company			
Penco Toxaphene E-6			
Toxaphene	60.00	61.46	Passed
do	60.00	61.88	Passed
Planters Chemical Corp.			
Planters 20% Toxaphene Dust			
Toxaphene	20.00	19.72	Passed
do	20.00	19.57	Passed
do	20.00	19.00	Passed
do	20.00	19.86	Passed
do	20.00	20.93	Passed
do	20.00	20.29	Passed
do	20.00	19.29	Passed
do	20.00	19.72	Passed
Quality Chemical Corp.			
20% Toxaphene Dust			
Toxaphene	20.00	15.99	Deficient
do	20.00	19.43	Passed
do	20.00	19.43	Passed
do	20.00	19.72	Passed
do	20.00	19.14	Passed
do	20.00	19.57	Passed
do	20.00	20.14	Passed
do	20.00	20.29	Passed
do	20.00	20.29	Passed
do	20.00	19.72	Passed
do	20.00	20.43	Passed
do	20.00	19.14	Passed
do	20.00	19.23	Passed
do	20.00	19.86	Passed
do	20.00	19.72	Passed
do	20.00	19.57	Passed
do	20.00	19.86	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Insecticides, Inc.			
SA Brand Pre-Heading Cabbage Dust with Toxaphene			
Toxaphene	10.00	10.72	Passed
20% Toxaphene Dust			
Toxaphene	20.00	20.00	Passed
do	20.00	19.72	Passed
Stauffer Chemical Company			
Stauffer 20% Toxaphene Dust			
Toxaphene	20.00	20.00	Passed
Taylor Chemical Company			
Superkill 20% Toxaphene Dust (without Sulfur)			
Toxaphene	20.00	20.14	Passed
do	20.00	19.72	Passed
do	20.00	19.72	Passed
do	20.00	19.77	Passed
do	20.00	19.43	Passed
do	20.00	19.00	Passed
do	20.00	19.29	Passed
Taylor Chemical Company			
Superkill 60% Toxaphene Emulsifiable Concentrate			
Toxaphene	60.00	61.90	Passed
do	60.00	61.73	Passed
do	60.00	61.13	Passed
do	60.00	61.27	Passed
do	60.00	59.84	Passed
do	60.00	62.25	Passed
do	60.00	60.36	Passed
United Cooperatives, Inc.			
(Now: Farmers Cooperative Exchange, Inc.)			
Toxaphene Emulsifiable Concentrate			
Toxaphene	60.00	61.69	Passed
do	60.00	60.78	Passed
do	60.00	59.37	Passed
do	60.00	61.15	Passed
Virginia-Carolina Chemical Corp.			
(Now: Diamond Black Leaf Company)			
Black Leaf 20% Toxaphene Dust			
Toxaphene	20.00	20.29	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Woolfolk Chemical Works, Ltd.

20% Toxaphene Dust

Toxaphene	20.00	19.14	Passed
do	20.00	20.00	Passed

TOXAPHENE - PARATHION**Southern Agricultural Insecticides, Inc.**

Pre-Heading Cabbage Dust with Toxaphene

Toxaphene	10.00	10.00	Deficient
Parathion	1.50	1.27	
Toxaphene	10.00	10.57	Passed
Parathion	1.50	1.82	
Toxaphene	10.00	10.50	Passed
Parathion	1.50	1.74	
Toxaphene	10.00	10.50	Passed
Parathion	1.50	1.76	
Toxaphene	10.00	10.79	Passed
Parathion	1.50	1.66	
Toxaphene	10.00	10.36	Passed
Parathion	1.50	1.64	
Toxaphene	10.00	10.14	Passed
Parathion	1.50	1.84	
Toxaphene	10.00	10.14	Passed
Parathion	1.50	1.80	
Toxaphene	10.00	10.50	Passed
Parathion	1.50	1.78	
Toxaphene	10.00	10.29	Passed
Parathion	1.50	2.09	
Toxaphene	10.00	10.29	Passed
Parathion	1.50	1.68	
Toxaphene	10.00	10.43	Passed
Parathion	1.50	1.58	
Toxaphene	10.00	10.43	Passed
Parathion	1.50	1.72	
Toxaphene	10.00	10.79	Passed
Parathion	1.50	1.56	
Toxaphene	10.00	10.22	Passed
Parathion	1.50	1.56	
Toxaphene	10.00	10.86	Passed
Parathion	1.50	1.73	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
TOXAPHENE - SULFUR			
Olin Mathieson Chemical Corp.			
Toxaphene Sulfur Dust (20% Toxaphene—40% Sulfur)			
Toxaphene	20.00	20.57	Passed
Sulfur	40.00	41.70	
Planters Chemical Corp.			
Planters 20% Toxaphene Cotton Dust			
Toxaphene	20.00	19.29	Passed
Sulfur	40.00	38.98	
Woolfolk Chemical Works, Ltd.			
20-40 Cotton Dust (Toxaphene-Sulfur)			
Toxaphene	20.00	21.15	Passed
Sulfur	40.00	39.80	
WARFARIN			
Atlas Chemical Company			
Atlas Anti-Rat & Mouse Killer			
Warfarin	0.025	0.028	Passed
Black Panther Company, Inc.			
Black Panther Bait Box Rat & Mouse Killer			
Warfarin	0.025	0.035	Passed
Blue Ball Chemical Company			
Blue Ball Dethsure Brand Warfarin			
Warfarin	0.025	0.035	Passed
Boyle-Midway, Inc.			
Black Flag Warfarin Rat & Mouse Killer			
Warfarin	0.025	0.031	Passed
Carolina Feed Store			
Carolina's Rat Bait			
Warfarin	0.025	0.027	Passed
Colonial Chemical Company			
Colonial-42			
Warfarin	0.025	0.031	Passed
do	0.025	0.037	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Chemical Company			
Nok-Out Warfarin			
Warfarin	0.025	0.039	Passed
do	0.025	0.030	Passed
do	0.025	0.034	Passed
The d-Con Company, Inc.			
d-Con Mouse-Prufe			
Warfarin (Sodium salt of)	0.025	0.026	Passed
d-Con Warficide (Water soluble)			
Warfarin (Sodium salt of)	0.54	0.54	Passed
WARFARIN - PIVAL			
Dr. Hess & Clark			
Dr. Hess 2 way Rat & Mouse Killer			
Warfarin	0.025	0.029	Passed
Pival	0.14	0.16	
ZINEB			
California Spray-Chemical Corp.			
Ortho Zineb 6.5 Dust			
Zinc ethylene bisdithiocarbamate	6.50	7.62	Passed
Ortho Zineb Wettable (Contains 65% Zineb)			
Zinc ethylene bisdithiocarbamate	65.00	77.75	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 10% Dithane Dust			
Zinc ethylene bisdithiocarbamate	6.50	8.10	Passed
do	6.50	8.13	Passed
do	6.50	9.08	Passed
do	6.50	8.10	Passed
Farmers Cooperative Exchange, Inc.			
FCX 6.5% Zineb Dust			
Zinc ethylene bisdithiocarbamate	6.50	7.81	Passed
do	6.50	8.13	Passed
do	6.50	7.87	Passed
do	6.50	8.20	Passed
do	6.50	7.91	Passed
do	6.50	7.72	Passed
do	6.50	7.71	Passed
do	6.50	8.01	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Graham Chemical Company			
Graham's Red Star 10% Dithane Dust			
Zinc ethylene bisdithiocarbamate	6.50	8.10	Passed
Maxwell Insecticide Company			
Maxwell 10% "Dithane" Dust			
Zinc ethylene bisdithiocarbamate	6.50	8.01	Passed
do	6.50	8.01	Passed
do	6.50	7.71	Passed
do	6.50	8.10	Passed
Olin Mathieson Chemical Corp.			
10% Dithane			
Zinc ethylene bisdithiocarbamate	6.50	7.91	Passed
do	6.50	8.20	Passed
do	6.50	8.01	Passed
do	6.50	7.91	Passed
W. R. Peele Company, Inc.			
Pelco Dithane Dust (Contains 10% Dithane Z-78)			
Zinc ethylene bisdithiocarbamate	6.50	7.81	Passed
do	6.50	8.10	Passed
do	6.50	8.10	Passed
Quality Chemical Corp.			
10% Dithane Z-78 Dust			
Zinc ethylene bisdithiocarbamate	6.50	8.11	Passed
do	6.50	8.10	Passed
do	6.50	7.03	Passed
do	6.50	7.81	Passed
MISCELLANEOUS INORGANIC			
P. F. Harris Manufacturing Company			
Harris Farmers Roach Tablets			
Boric acid	40.00	46.02	Passed
Mahaffey Company			
Mahaffey's Roach Powder			
Sodium tetraborate decahydrate	60.00	77.87	Passed
Calcium sulfate hemihydrate	15.00	22.52	
American Cyanamid Company			
Cyanogas, Kills Ants			
Calcium cyanide	42.00	42.39	Passed
do	42.00	42.74	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Tobacco By-Products & Chemical Corp. (Now: Diamond Black Leaf Company)			
Black Leaf Lime Sulfur Spray			
Calcium polysulfides	26.00	28.06	Passed
Liquid Veneer Corp. (Now: Nip-Co Manufacturing, Inc.)			
Rat Nip			
Phosphorus	1.10	1.57	Passed
Stearn's Electric Paste Company			
Stearn's Electric Brand Rat and Roach Paste			
Phosphorus	3.00	3.43	Passed
Nott Manufacturing Company			
Crab-Not Crab Grass Killer			
Potassium cyanate	86.00	83.20	Passed
Swift and Company			
End-O-Weed Crab Grass Killer			
Potassium cyanate	60.00	34.50	Deficient
Chipman Chemical Company, Inc.			
Atlacide			
Sodium chlorate	58.00	59.90	Passed
do	58.00	56.92	Passed
O. E. Linck Company, Inc.			
Mo-Go-Kills Moles and Gophers			
Thallium sulfate	1.00	0.91	Passed
do	1.00	0.99	Passed
MISCELLANEOUS - ORGANIC			
Allied Drug Products Company			
Allied 2% Antu Brown Rat Poison			
Alpha naphthyl thiourea	20.00	20.05	Passed
Pearson and Company			
Pearson's 5% Nema-kill			
1-2 dibromo-3 chloro propane-related brominated and/or chlorinated C ₃ Hydrocarbons	4.95	4.99	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Chemagro Corp.			
Dipterex Sugar Bait Fly Killer			
0,0-dimethyl-1-hydroxy 2,2,2-trichloro-ethyl phosphonate	1.00	1.13	Passed
Pittsburg Coke and Chemical Company			
Fly Charmer			
0,0-dimethyl-1-hydroxy 2,2,2-trichloro ethyl phosphonate	2.00	1.92	Passed
The Dow Chemical Company			
Dowfume W-85			
Ethylene dibromide	83.00	82.14	Passed
E. I. du Pont de Nemours and Company			
Du Pont E P N (300) Insecticide			
Ethyl P-nitrophenyl thionobenzene-phosphate	25.00	27.40	Passed
The Sterling Company			
Miracle Moth Balls			
Napthalene	100.00	100.00	Passed
Tobacco By-Products & Chemical Corp. (Now: Diamond Black Leaf Company)			
Black Leaf 40			
Nicotine as alkaloid	40.00	40.75	Passed
California Spray-Chemical Corp.			
Ortho Volck Oil Spray			
Petroleum oils	97.00	97.27	Passed
O. M. Scott and Sons Company			
Schult			
Phenylmercuric acetate	0.74	0.70	Passed
W. G. Reardon Laboratories, Inc.			
Mouse Seed			
Strychnine	0.40	0.45	Passed
American Chemical Paint Company			
Rootone with Fungicide			
Tetramethylthiuram disulfide	12.50	12.25	Passed
Du Pont Semesan Company, Inc.			
Du Pont Arasan Seed Disinfectant			
Tetramethylthiuram disulfide	50.00	47.84	Passed

